



July 14, 2016

Mr. Phillip Porter
EHS Compliance Specialist
PDC Energy, Inc.
1775 Sherman Street, Suite 3000
Denver, Colorado 80203

**RE: Post-Incorporation Soil Sampling Report
Easton #2 Beneficial Reuse Area (Facility ID #429629)
NW Sec. 12 T4N R65W 6PM
Weld County, Colorado**

Dear Mr. Porter:

LT Environmental, Inc. (LTE), under the direction of PDC Energy, Inc. (PDC), conducted post-incorporation soil sampling activities at the Easton #2 Beneficial Reuse Area (Site) located in Weld County, Colorado (Figure 1). The objective of the sampling event was to provide comparative data after drill cuttings were spread and incorporated into the native soil as a beneficial amendment at the Site. This correspondence summarizes the soil sampling activities conducted at the Site in August 2015 and April 2016.

LTE previously conducted baseline sampling at the Site on July 2, 2012, before spreading activities with drill cuttings were initiated. LTE summarized the analytical and percolation testing results from the baseline sampling event in the report titled, *Baseline Sampling Results, PDC Mud Spread Fields, Easton #2 Property*, dated July 18, 2012.

Baseline Soil Sampling and Percolation Testing

The National Resource Conservation Service (NRCS) indicates the first three to six inches of native soil at the Site are characterized as Nelson fine sandy loam. On July 2, 2012, under the direction of PDC, LTE personnel collected one composite soil sample for soil identification, conducted two percolation tests, and collected eight soil samples for laboratory analysis.

Post-Incorporation Soil Classification and Percolation Testing

On August 28, 2015, under the direction of PDC, LTE personnel collected one composite soil sample from the soil type (Nelson fine sandy loam) representative of the Site and submitted the sample to Weld Laboratories, Inc. in Greeley, Colorado, for soil classification analysis.

On August 27 and 28, 2015, under the direction of PDC, LTE personnel conducted two percolation tests at the Site. Each test was completed in an 18-inch deep soil boring at the Site. The borings were first pre-soaked by maintaining a high water level. The percolation tests were conducted within 24 hours of the initial pre-soak unless the water percolated through the borings at an accelerated rate. Once the water had percolated into the borings, LTE personnel initiated the tests by filling the borings and installing a pressure transducer equipped with a data logger to measure the decrease in the water level



as it percolated over a sufficient period of time. The percolation test locations are illustrated on Figure 2.

Post-Incorporation Soil Classification and Percolation Testing Results

Laboratory results indicated the Nelson fine sandy loam composite sample collected from the upper 18 inches of soil was composed of 66.1 percent (%) silt and clay and 33.9% sand and organic matter. These data indicated the silt and clay content at this location increased by 49% after the incorporation of drilling fluid and drill cuttings at the Site. The laboratory classified the composite sample as loam.

Based on the results from the soil classification analyses, 26% of the soils across the Site are clay. Prior to the incorporation of drill cuttings, 9.1% of the soils across the Site were clay. The laboratory results indicate the overall clay content in the Nelson fine sandy loam land application areas increased following the incorporation of drill cuttings in the upper 18 inches of soil. Soil classification laboratory results are included in Attachment 1.

In addition, LTE used percolation test results to generate site-specific hydraulic conductivity data for the upper 18 inches of soil at the Site. The hydraulic conductivity for the upper soils at the Site is approximately 5.67×10^{-4} to 1.28×10^{-3} centimeters per second (cm/s) for percolation test locations PT01 and PT02, respectively. Prior to the incorporation of drill cuttings, the hydraulic conductivity was approximately 1.13×10^{-4} to 1.00×10^{-4} cm/s for percolation test locations PT01 and PT02, respectively. These data indicate the hydraulic conductivity increased by over 500% from the documented baseline levels at the PT01 percolation test location, and the hydraulic conductivity increased by an order of magnitude at the PT02 percolation test location. The post-incorporation hydraulic conductivity is consistent with published values for unconsolidated sediments that include silt, sandy silts, clayey sands, and till (*Applied Hydrogeology - Fourth Edition*, C.W. Fetter). Charts depicting the percolation test data for the Site are provided in Attachments 2 and 3.

Post-Incorporation Soil Sampling

On August 28, 2015, under the direction of PDC, LTE personnel collected eight surface soil samples (SS01 through SS08) at the same approximate locations as the baseline sampling event on July 2, 2012. The individual aliquots were composited vertically from ground surface to a depth of 18-inches below ground surface (bgs) using a hand auger. The soil was inspected for the presence/absence of petroleum hydrocarbon odor and/or staining by visually inspecting the soil samples collected. The soil sample locations are illustrated on Figure 2.

The soil samples were collected, placed on ice, then submitted with a completed chain of custody to Summit Scientific of Golden, Colorado. All soil samples were submitted for analysis of arsenic by United States Environmental Protection Agency (EPA) Method 6020A. Soil samples SS02, SS03, SS06, and SS07 were also submitted for the following analyses.



Analyte	Method
Benzene, toluene, ethylbenzene, and total xylenes (BTEX)	EPA Method 8260B
Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO)	EPA Method 8260B
TPH – Diesel Range Organics (DRO)	EPA modified Method 8015
Electrical Conductivity (EC)	Standard Method 2510B
Sodium Adsorption Ratio (SAR)	EPA 6020/United States Department of Agriculture (USDA) Handbook No. 60 Chapter 6 (2, 3A)
pH	EPA Method 9045B
Acenaphthene	EPA Method 8270D SIM
Anthracene	EPA Method 8270D SIM
Benzo (A) anthracene	EPA Method 8270D SIM
Benzo (B) fluoranthene	EPA Method 8270D SIM
Benzo (K) fluoranthene	EPA Method 8270D SIM
Benzo (A) pyrene	EPA Method 8270D SIM
Chrysene	EPA Method 8270D SIM
Dibenzo (A,H) anthracene	EPA Method 8270D SIM
Fluoranthene	EPA Method 8270D SIM
Fluorene	EPA Method 8270D SIM
Indeno (1,2,3,C,D) pyrene	EPA Method 8270D SIM
Napthalene	EPA Method 8270D SIM
Pyrene	EPA Method 8270D SIM
Barium	EPA Method 6020
Cadmium	EPA Method 6020
Chromium (III)	EPA Method 7196
Chromium (VI)	EPA Method 7196
Copper	EPA Method 6020
Lead (inorganic)	EPA Method 6020
Mercury	EPA Method 7471
Nickel (soluble salts)	EPA Method 6020
Selenium	EPA Method 6020
Silver	EPA Method 6020
Zinc	EPA Method 6020

Post-Incorporation Soil Sampling Results

Laboratory analytical results indicated soil sample SS07 exceeded the Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 allowable concentration for benzo (A) pyrene at a concentration of 0.0279 milligrams per kilograms (mg/kg). Soil samples SS02, SS03, SS06, and SS07 exceeded the COGCC Table 910-1 allowable concentration for EC at concentrations of 7.96 millimhos per centimeter (mmhos/cm), 7.14 mmhos/cm, 4.32 mmhos/cm, and 8.54 mmhos/cm, respectively. Soil



samples SS02, SS03, and SS07 exceeded the COGCC Table 910-1 concentration level for SAR at concentrations of 18.7, 25.3, and 21.2, respectively. All soil samples (SS01 through SS08) exceeded the COGCC Table 910-1 concentration level for arsenic at concentrations of 6.88 mg/kg, 8.43 mg/kg, 8.15 mg/kg, 8.81 mg/kg, 7.18 mg/kg, 7.68 mg/kg, 7.43 mg/kg, and 6.61 mg/kg, respectively. All remaining analytical results indicated compliance with applicable COGCC Table 910-1 allowable concentrations.

Subsequent Post-Incorporation Soil Sampling

On April 26, 2016, under the direction of PDC, LTE personnel collected eight subsequent follow-up surface soil samples (SS01 through SS08) at the same approximate locations of the soil samples collected during the August 2015 sampling event. The purpose this sampling event was to document soil conditions following the August 2015 sampling event for analytes that exceeded the COGCC Table 910-1 concentration levels.

The eight soil samples were submitted for analysis of arsenic by EPA method 6020. In addition, soil samples SS02, SS03, and SS07 were submitted for analysis of EC and SAR by Standard Method 2510B and EPA 6020/USDA Handbook No. 60 Chapter 6 (2, 3A), respectively; soil sample SS06 was submitted for analysis of EC; and soil sample SS07 was submitted for analysis of benzo (A) pyrene by EPA Method 8270D SIM.

Subsequent Post-Incorporation Soil Sampling Results

Laboratory analytical results indicated soil sample SS06 exceeded the COGCC Table 910-1 allowable concentration for EC at a concentration of 5.90 mmhos/cm. All remaining analytical results with the exception of arsenic were compliant with applicable COGCC Table 910-1 allowable concentrations.

Laboratory analytical results indicated all soil samples (SS01 through SS08) exceeded the COGCC Table 910-1 allowable concentration for arsenic at concentrations of 6.07 mg/kg, 6.05 mg/kg, 5.51 mg/kg, 8.31 mg/kg, 7.59 mg/kg, 8.74 mg/kg, 4.77 mg/kg, and 6.97 mg/kg, respectively. All baseline soil samples (SS01 through SS08) collected on July 2, 2012, before the incorporation of drilling fluid and drill cuttings, also exceeded the COGCC Table 910-1 allowable concentration for arsenic. Elevated arsenic concentrations are not uncommon, as background concentrations for Colorado have been observed to range from 0.3 to 26 parts per million (Severson, R. C., and Tourlet, H. A., 1994, *Assessment of Geochemical Variability and a Listing of Geotechnical Data for Surface Soils of the Front Range Urban Corridor: U.S. Geological Survey Open-File Report 94-648*). The arsenic concentrations detected at the Site appear to be representative of background concentrations observed in regional soils.

Soil sample analytical results are summarized in Table 1. The laboratory analytical reports are included as Attachments 4, 5, and 6.

Summary and Conclusions

Under the direction of PDC, LTE personnel collected one composite soil sample for soil classification, conducted two percolation tests, and collected a total of eight surface soil samples on August 28, 2015



and eight subsequent surface soil samples on April 26, 2016 which were submitted for laboratory analysis.

The laboratory soil classification analyses indicated that the soil type at the Site is loam. The result is different from the classification made by the NRCS. Hydraulic conductivity values from the percolation testing are consistent with the soil classification at the Site. According to the soil classification and percolation testing data, the hydraulic conductivity in the upper soils at the Site have increased following the incorporation of drill cuttings into the native soil.

Final surface soil samples SS02, SS03, SS06, and SS07 were compliant with the COGCC Table 910-1 allowable concentrations for BTEX, TPH, PAHs, pH, SAR, and metals with the exception of arsenic, but are similar to the naturally occurring elevated arsenic levels common in the region. There was an exceedance for EC at soil sample location SS06. It is possible that this exceedance will not affect final reclamation efforts.

LTE appreciates the opportunity to provide environmental services to PDC. Please call us at 303-433-9788 if you have any questions or comments regarding this report.

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in black ink, appearing to read 'Daniel Hosler', written in a cursive style.

Daniel Hosler
Staff Geologist

A handwritten signature in black ink, appearing to read 'Brett Forkner', written in a cursive style.

Brett Forkner, CISEC
Project Environmental Scientist

Attachments:

Figure 1 - Site Location Map

Figure 2 - Site Map

Table 1 - Soil Analytical Results

Attachment 1 - Soil Classification Laboratory Report

Attachment 2 - Percolation Test Chart for Percolation Test Location PT01

Attachment 3 - Percolation Test Chart for Percolation Test Location PT02

Attachment 4 - Baseline Laboratory Analytical Report

Attachment 5 - Post-Incorporation Laboratory Analytical Report

Attachment 6 - Subsequent Post-Incorporation Laboratory Analytical Report

FIGURES



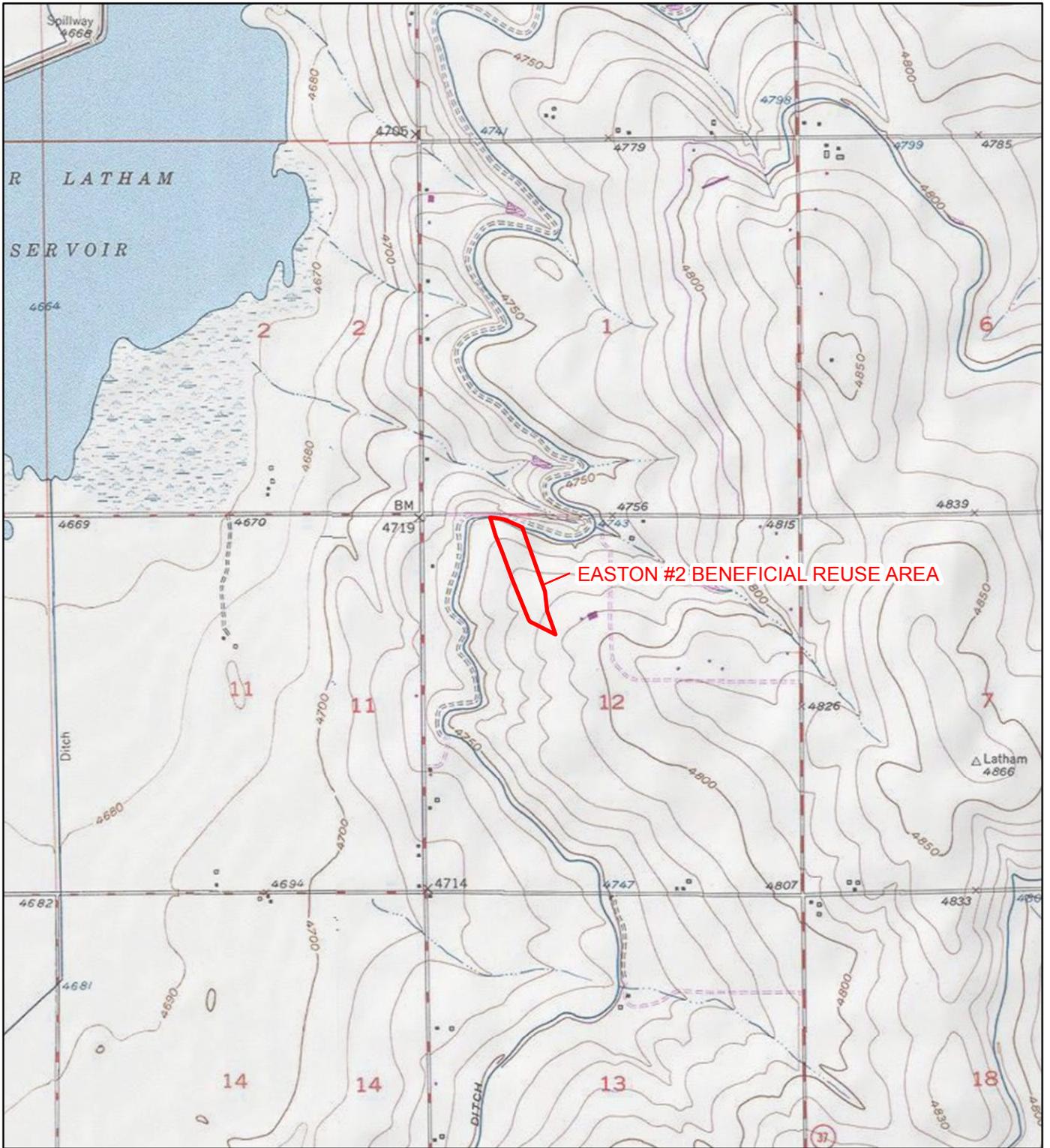


IMAGE COURTESY OF ESRI/USGS

LEGEND

 SITE LOCATION

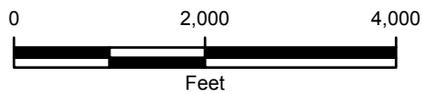


FIGURE 1
 SITE LOCATION MAP
 EASTON #2 BENEFICIAL REUSE AREA
 NW SEC 12 T4N R65W
 WELD COUNTY, COLORADO
 PDC ENERGY, INC.



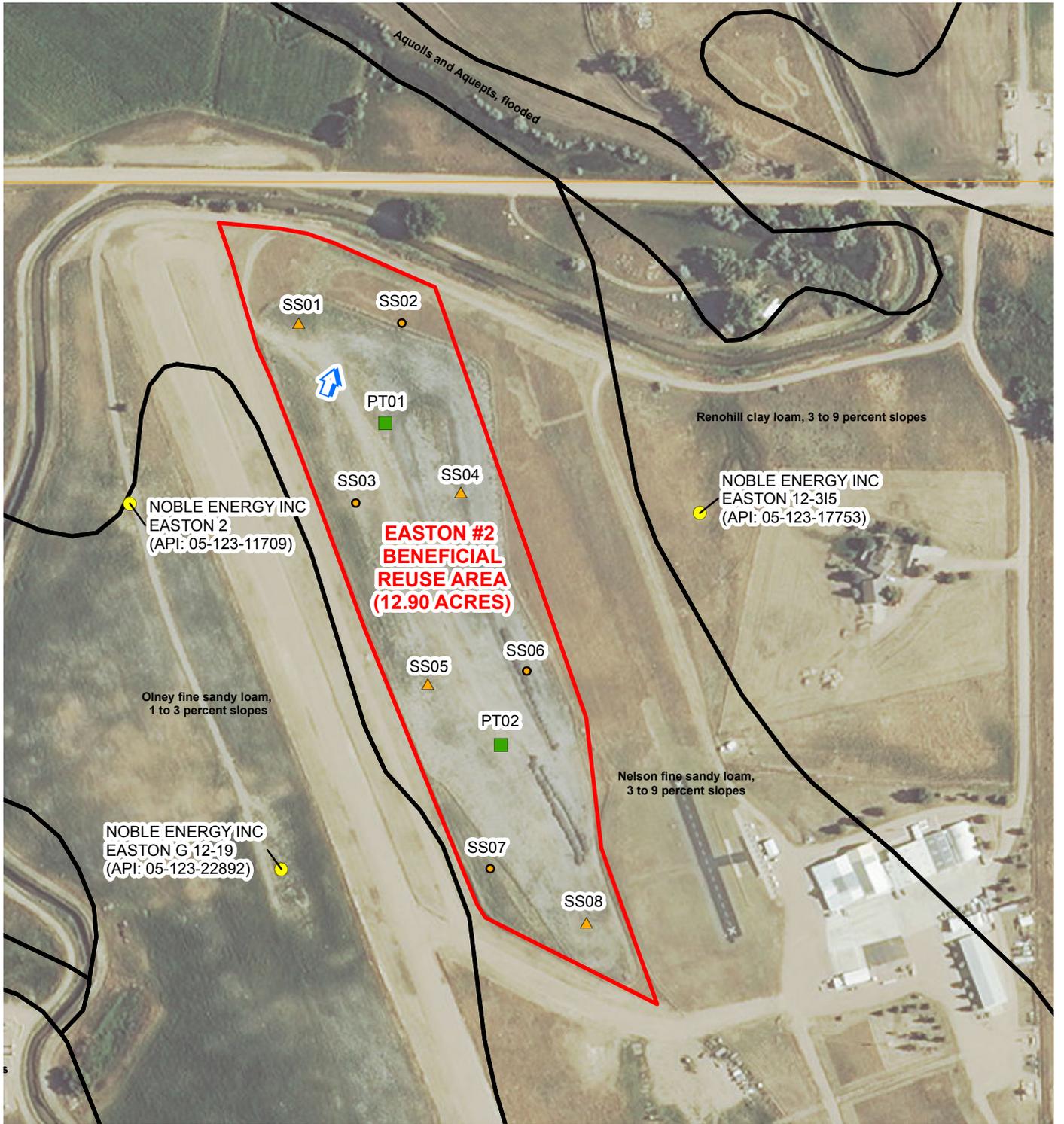


IMAGE COURTESY OF ESRI

LEGEND

- SOIL SAMPLE
- ▲ ARSENIC SOIL SAMPLE
- PERCOLATION TEST
- PRODUCTION WELL
- ↑ ESTIMATED GROUNDWATER FLOW DIRECTION
- ▭ SITE LOCATION
- ▭ NRCS SOIL TYPE
- ▭ SECTION

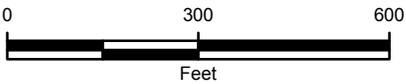


FIGURE 2
SOIL SAMPLE LOCATION MAP
EASTON #2 BENEFICIAL REUSE AREA
NW SEC 12 T4N R65W
WELD COUNTY, COLORADO
PDC ENERGY, INC.



TABLE 1



TABLE 1
SOIL ANALYTICAL RESULTS
EASTON #2 BENEFICIAL REUSE AREA
WELD COUNTY, COLORADO
PDC ENERGY, INC.

Parameter	COGCC Table 910-1 Limit	Units	SS01	SS01	SS01	SS02	SS02	SS02	SS03	SS03	SS03	SS04	SS04	SS04	SS05	SS05	SS05	SS06	SS06	SS06	SS07	SS07	SS07	SS08	SS08	SS08
			7/2/2012	8/28/2015	4/26/2016	7/2/2012	8/28/2015	4/26/2016	7/2/2012	8/28/2015	4/26/2016	7/2/2012	8/28/2015	4/26/2016	7/2/2012	8/28/2015	4/26/2016	7/2/2012	8/28/2015	4/26/2016	7/2/2012	8/28/2015	4/26/2016	7/2/2012	8/28/2015	4/26/2016
Sample Date			Baseline	Closure	Closure	Baseline	Closure	Closure	Baseline	Closure	Closure															
Sample Type																										
Benzene	0.17	mg/kg	--	--	--	<0.0050	<0.0020	--	<0.0050	<0.0020	--	--	--	--	--	--	--	<0.0050	<0.0020	--	<0.0050	<0.0020	--	--	--	--
Toluene	85	mg/kg	--	--	--	<0.0050	<0.0050	--	<0.0050	<0.0050	--	--	--	--	--	--	--	<0.0050	<0.0050	--	<0.0050	<0.0050	--	--	--	--
Ethylbenzene	100	mg/kg	--	--	--	<0.0050	<0.0050	--	<0.0050	<0.0050	--	--	--	--	--	--	--	<0.0050	<0.0050	--	<0.0050	<0.0050	--	--	--	--
Total Xylenes	175	mg/kg	--	--	--	<0.0050	<0.0050	--	<0.0050	<0.0050	--	--	--	--	--	--	--	<0.0050	<0.0050	--	<0.0050	<0.0050	--	--	--	--
TEPH-DRO	--	mg/kg	--	--	--	<50	73	--	<50	120	--	--	--	--	--	--	--	<50	73	--	<50	220	--	--	--	--
TVPH-GRO	--	mg/kg	--	--	--	<0.50	<0.50	--	<0.50	<0.50	--	--	--	--	--	--	--	<0.50	<0.50	--	<0.50	<0.50	--	--	--	--
TPH Total	500	mg/kg	--	--	--	<50.50	73	--	<50.50	120	--	--	--	--	--	--	--	<50.50	73	--	<50.50	220	--	--	--	--
Arsenic	0.39	mg/kg	1.51	6.88	6.07	2.49	8.43	6.05	2.46	8.15	5.51	1.97	8.81	8.31	3.18	7.18	7.59	2.89	7.68	8.74	4.40	7.43	4.77	2.63	6.61	6.97
Barium	15,000	mg/kg	--	--	--	62.8	648	--	75.6	485	--	--	--	--	--	--	--	94.7	313	--	104	313	--	--	--	--
Cadmium	70	mg/kg	--	--	--	0.123	1.11	--	0.155	1.46	--	--	--	--	--	--	--	0.397	0.958	--	0.297	1.39	--	--	--	--
Chromium (III)	120,000	mg/kg	--	--	--	5.92	14.0	--	6.27	12.2	--	--	--	--	--	--	--	8.74	14.2	--	7.88	14.6	--	--	--	--
Chromium (VI)	23	mg/kg	--	--	--	<1	<1.15	--	<1	<1.06	--	--	--	--	--	--	--	<1	<0.915	--	<1	<1.06	--	--	--	--
Copper	3,100	mg/kg	--	--	--	5.62	23.6	--	5.70	28.1	--	--	--	--	--	--	--	12.9	25.7	--	11.2	27.1	--	--	--	--
Lead	400	mg/kg	--	--	--	6.47	10.6	--	7.08	10.9	--	--	--	--	--	--	--	10.8	10.7	--	11.1	9.16	--	--	--	--
Mercury	23	mg/kg	--	--	--	<0.0500	<0.0573	--	<0.0500	<0.0466	--	--	--	--	--	--	--	<0.0500	0.0421	--	<0.0500	<0.0470	--	--	--	--
Nickel	1,600	mg/kg	--	--	--	7.19	20.8	--	6.94	23.1	--	--	--	--	--	--	--	13.8	20.9	--	10.9	22.4	--	--	--	--
Selenium	390	mg/kg	--	--	--	<0.100	2.66	--	0.102	3.14	--	--	--	--	--	--	--	0.219	2.31	--	0.209	3.25	--	--	--	--
Silver	390	mg/kg	--	--	--	<0.100	0.163	--	<0.100	0.166	--	--	--	--	--	--	--	<0.100	0.177	--	<0.100	0.199	--	--	--	--
Zinc	23,000	mg/kg	--	--	--	25.9	72.3	--	24.5	105	--	--	--	--	--	--	--	57	68.8	--	44.7	69.8	--	--	--	--
Acenaphthene	1,000	mg/kg	--	--	--	<0.005	<0.00500	--	<0.005	<0.00500	--	--	--	--	--	--	--	<0.005	<0.00500	--	<0.005	<0.00500	--	--	--	--
Anthracene	1,000	mg/kg	--	--	--	<0.005	<0.00500	--	<0.005	<0.00500	--	--	--	--	--	--	--	<0.005	<0.00500	--	<0.005	<0.00500	--	--	--	--
Benzo (A) anthracene	0.22	mg/kg	--	--	--	<0.005	0.0220	--	<0.005	<0.00500	--	--	--	--	--	--	--	<0.005	<0.00500	--	<0.005	0.0219	--	--	--	--
Benzo (B) fluoranthene	0.22	mg/kg	--	--	--	<0.005	0.0110	--	<0.005	0.0110	--	--	--	--	--	--	--	<0.005	0.0146	--	<0.005	0.0473	--	--	--	--
Benzo (K) fluoranthene	2.2	mg/kg	--	--	--	<0.005	<0.00500	--	<0.005	<0.00500	--	--	--	--	--	--	--	<0.005	<0.00500	--	<0.005	0.0141	--	--	--	--
Benzo (A) pyrene	0.022	mg/kg	--	--	--	<0.005	0.00523	--	<0.005	0.00806	--	--	--	--	--	--	--	<0.005	0.00673	--	<0.005	0.0279	<0.00500	--	--	--
Chrysene	22	mg/kg	--	--	--	<0.005	0.0136	--	<0.005	0.0753	--	--	--	--	--	--	--	<0.005	0.0164	--	<0.005	0.0862	--	--	--	--
Dibenzo (A,H) anthracene	0.022	mg/kg	--	--	--	<0.01	<0.00500	--	<0.01	<0.00500	--	--	--	--	--	--	--	<0.01	<0.00500	--	<0.01	<0.00500	--	--	--	--
Fluoranthene	1,000	mg/kg	--	--	--	<0.005	0.00608	--	<0.005	<0.00500	--	--	--	--	--	--	--	<0.005	0.00674	--	<0.005	0.01540	--	--	--	--
Fluorene	1,000	mg/kg	--	--	--	<0.005	<0.00500	--	<0.005	0.00526	--	--	--	--	--	--	--	<0.005	<0.00500	--	<0.005	0.00625	--	--	--	--
Indeno (1,2,3,C,D) pyrene	0.22	mg/kg	--	--	--	<0.01	<0.00500	--	<0.01	<0.00500	--	--	--	--	--	--	--	<0.01	<0.00500	--	<0.01	0.0224	--	--	--	--
Naphthalene	23	mg/kg	--	--	--	<0.005	0.00984	--	<0.005	0.0211	--	--	--	--	--	--	--	<0.005	0.0147	--	<0.005	0.0168	--	--	--	--
Pyrene	1,000	mg/kg	--	--	--	<0.005	0.00994	--	<0.005	0.0225	--	--	--	--	--	--	--	<0.005	0.0216	--	<0.005	0.0532	--	--	--	--
EC	4	mmhos/cm	--	--	--	0.332	7.96	3.28	0.176	7.14	3.90	--	--	--	--	--	--	0.449	4.32	5.90	0.644	8.54	0.436	--	--	--
pH	6 - 9	SU	--	--	--	8.3	8.08	--	7.8	8.18	--	--	--	--	--	--	--	8.5	8.24	--	8.3	8.10	--	--	--	--
SAR	12	unitless	--	--	--	0.200	18.7	2.10	0.360	25.3	5.44	--	--	--	--	--	--	0.750	10.3	--	0.700	21.2	0.307	--	--	--

NOTES:
COGCC - Colorado Oil and Gas Conservation Commission
EC - electrical conductivity
mg/kg - milligrams per kilogram
mmhos/cm - millimhos per centimeter in saturated paste extract
SAR - sodium adsorption ratio
SU - standard unit on saturated paste
TEPH-DRO - total extractable petroleum hydrocarbon-diesel range organics
TPH - total petroleum hydrocarbons
TVPH-GRO - total volume petroleum hydrocarbon-gasolene range organics
-- - not analyzed/no standard
< - less than the stated analytical reporting limit
BOLD - indicates result exceeds the COGCC Table 910-1 Concentration Level

ATTACHMENT 1
SOIL CLASSIFICATION LABORATORY REPORT



WELD LABORATORIES, INC.

1527 First Avenue • Greeley, Colorado 80631
Phone: (970) 353-8118 • Fax: (970) 353-1671
www.weldlabs.com

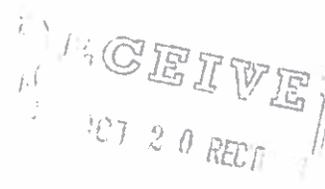
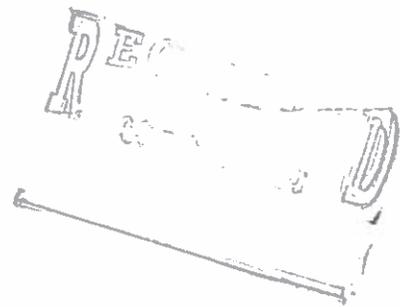
October 13, 2015

LT Environmental
4600 W 60th Ave
Arvada, CO 80003-6911

Laboratory No. E15253-2

Soil Classification

Sample ID	% Silt	% Clay	% Sand	% Fine Sand	Classification
Easton Property #2 Soil classification	40.1	26.0	23.1	10.8	Loam





Project Manager

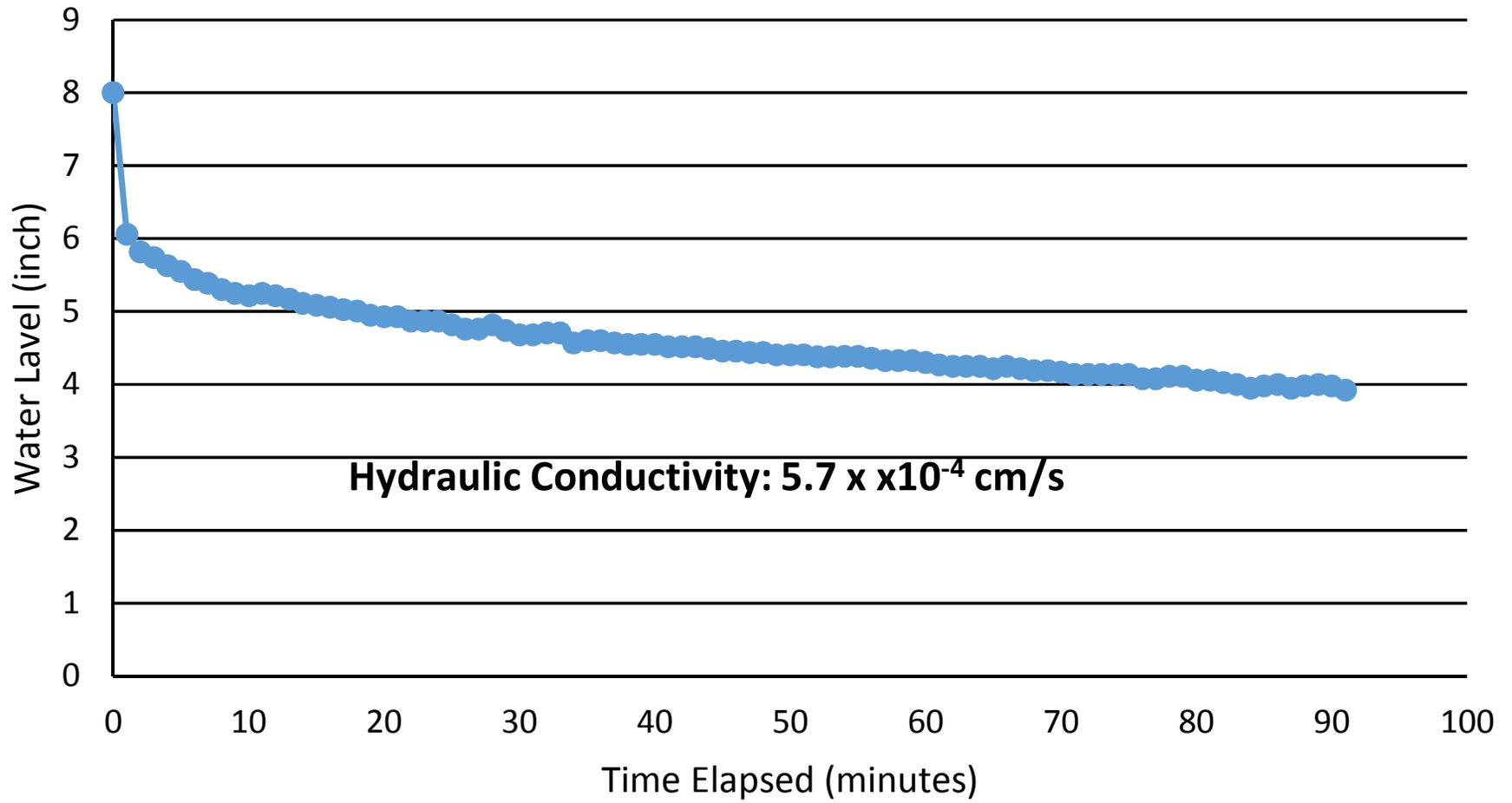
10/13/15
Date

ATTACHMENT 2

PERCOLATION TEST CHART FOR PERCOLATION TEST LOCATION PT01



Percolation Test PT01

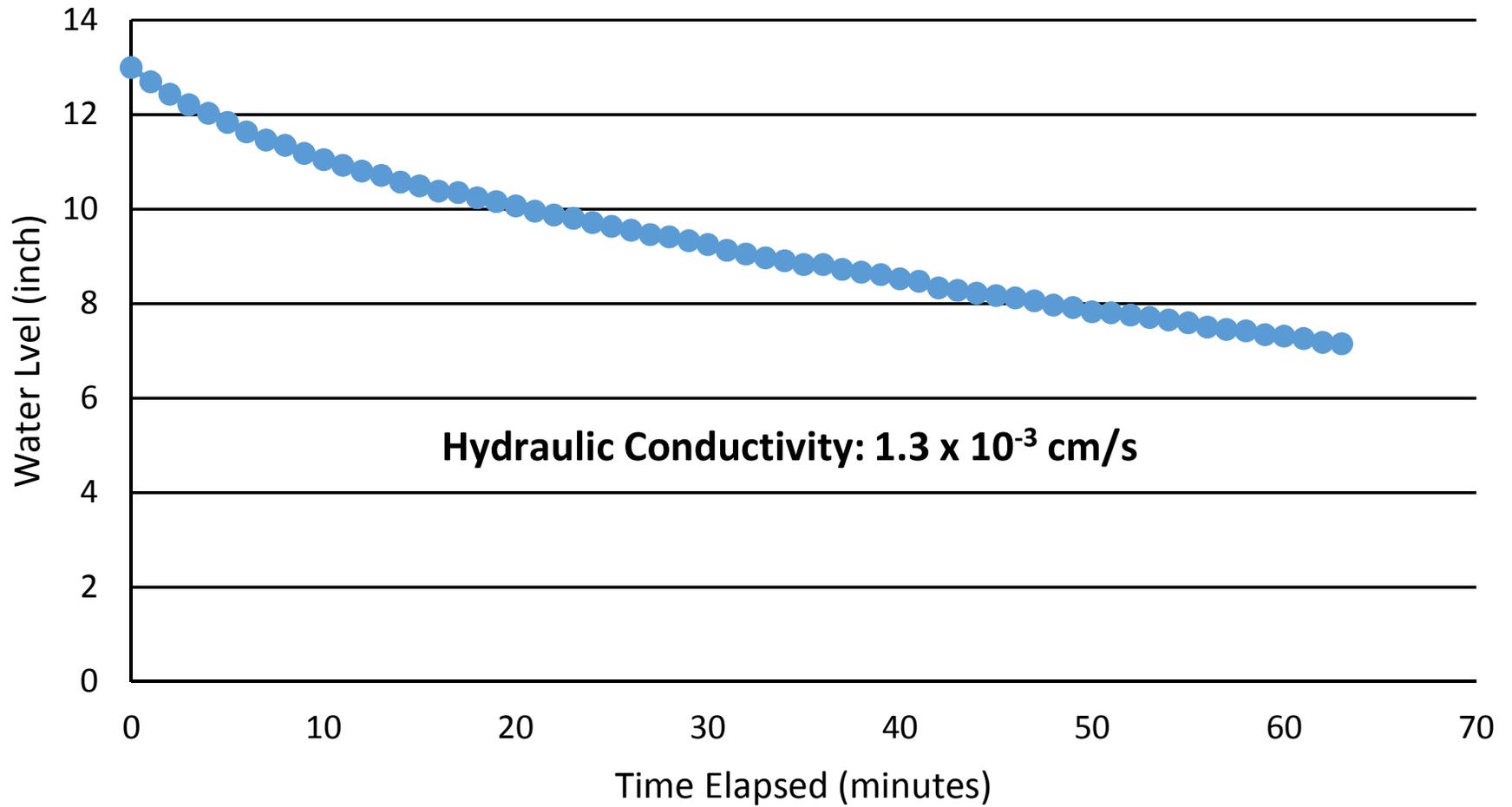


ATTACHMENT 3

PERCOLATION TEST CHART FOR PERCOLATION TEST LOCATION PT02



Percolation Test PT02



ATTACHMENT 4
BASELINE LABORATORY ANALYTICAL REPORT



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

July 10, 2012

Brian Dodek
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: PDC - Easton Property

Enclosed are the results of analyses for samples received by Summit Scientific on 07/02/12 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	R207019-01	Soil	07/02/12 12:05	07/02/12 16:30
SS02	R207019-02	Soil	07/02/12 12:20	07/02/12 16:30
SS03	R207019-03	Soil	07/02/12 12:40	07/02/12 16:30
SS04	R207019-04	Soil	07/02/12 13:00	07/02/12 16:30
SS05	R207019-05	Soil	07/02/12 13:15	07/02/12 16:30
SS06	R207019-06	Soil	07/02/12 13:35	07/02/12 16:30
SS07	R207019-07	Soil	07/02/12 13:55	07/02/12 16:30
SS08	R207019-08	Soil	07/02/12 14:10	07/02/12 16:30

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

R207019

Summit Scientific

5

741 Comoros Circle Suite 1 • Golden, Colorado 80401
303-277-9310 • 303-277-9331 Fax

Client: LT Environmental, Inc.
Address: 4600 West 60th Avenue
City/State/Zip: Arvada, CO 80003
Phone: (303) 433-9788
Sampler Name: Devin Griffin
Project Manager: Brian Dodek
E-Mail: bdodek@sumsci.com
Project Name: Easton #2 Property
Project Number: 0788120

Page | of |

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative			Matrix			Analyze For:							Special Instructions						
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	DRO	GBTEX	BTEX	PH / EC	SAR		Table 910.1 metals	Table 910.1 PAHs	Arsenic			
5501	7-2-12	1205	1		X																		
5502		1230	3																				
5503		1240	3																				
5504		1340	1																				
5505		1345	1																				
5506		1335	3																				
5507		1355	3																				
5508		1410	1																				
Relinquished by: Devin Griffin 7-2-12				Received by: [Signature]			Date/Time: 7-2-12			Turn Around Time (Check): Same Day [X], 24 Hours [X], 48 Hours []			Notes: Fall Table 910-1 for 5502, 5503, 5506, + 5509. As only, for other samples										
Relinquished by: [Signature]				Received by: [Signature]			Date/Time: 7-2-12			Sample Integrity: Temperature Upon Receipt: 50			Impact: Yes [X], No []										



LT Environmental, Inc.
 4600 West 60th Avenue
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Reported:
 07/10/12 09:17

SS01
R207019-01 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **07/02/12 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.51	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020	

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Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

SS02
R207019-02 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **07/02/12 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2070212	07/02/12	07/03/12	8015 DRO	

Date Sampled: **07/02/12 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		99.3 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/02/12 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2070211	07/02/12	07/02/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/02/12 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.6 %	30-150		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **07/02/12 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	5.00	ug/kg	1	2070210	07/02/12	07/03/12	EPA 8270D SIM	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	

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Reported:
07/10/12 09:17

SS02
R207019-02 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	5.00	ug/kg	1	2070210	07/02/12	07/03/12	EPA 8270D SIM	
Benzo (a) anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"	
Chrysene	ND	5.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	ND	5.00	"	"	"	"	"	"	
Fluorene	ND	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	5.00	"	"	"	"	"	"	
Phenanthrene	ND	5.00	"	"	"	"	"	"	
Pyrene	ND	5.00	"	"	"	"	"	"	

Date Sampled: 07/02/12 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		92.0 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		102 %	50-150		"	"	"	"	

Calculated Analytes

Date Sampled: 07/02/12 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	5.92	1.00	mg/kg	1	2070915	07/09/12	07/09/12	Calculation	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 07/02/12 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.49	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020A	
Barium	62.8	0.100	"	"	"	"	"	"	
Cadmium	0.123	0.100	"	"	"	"	"	"	

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SS02
R207019-02 (Soil)

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Total Metals by EPA Method 6020 - Dry Weight Basis

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium	6.92	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020A	
Copper	5.62	0.500	"	"	"	"	"	"	
Lead	6.47	0.100	"	"	"	"	"	"	
Nickel	7.19	0.100	"	"	"	"	"	"	
Selenium	ND	0.100	"	"	"	"	"	"	
Silver	ND	0.100	"	"	"	"	"	"	
Zinc	25.9	10.0	"	"	"	"	"	"	

Total Mercury by EPA Method 7471/7470

Date Sampled: 07/02/12 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0500	mg/kg	1	2070303	07/03/12	07/03/12	EPA 7471B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 07/02/12 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.332	0.00100	mmhos/cm	1	2070312	07/03/12	07/03/12	SM 2510B	

Date Sampled: 07/02/12 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.3		pH Units	"	2070311	07/03/12	07/03/12	EPA 9045B	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: 07/02/12 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	204	2.50	mg/kg	1	2070302	07/03/12	07/03/12	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	23.9	1.00	"	"	"	"	"	"	
Sodium	11.1	7.00	"	"	"	"	"	"	

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 07/10/12 09:17

SS02
R207019-02 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/02/12 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.200		units	1	2070317	07/03/12	07/03/12	EPA 6020/Mod. USDA60 6(2, 3A)	

Accutest Laboratories - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: **07/02/12 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	1	mg/kg	1	2070915	07/09/12	07/09/12	3060A/7196 A	

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Reported:
07/10/12 09:17

SS03
R207019-03 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: 07/02/12 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2070212	07/02/12	07/03/12	8015 DRO	

Date Sampled: 07/02/12 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		112 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/02/12 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2070211	07/02/12	07/02/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 07/02/12 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		99.0 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.2 %	30-150		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: 07/02/12 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	5.00	ug/kg	1	2070210	07/02/12	07/03/12	EPA 8270D SIM	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	

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07/10/12 09:17

SS03
R207019-03 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	5.00	ug/kg	1	2070210	07/02/12	07/03/12	EPA 8270D SIM	
Benzo (a) anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"	
Chrysene	ND	5.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	ND	5.00	"	"	"	"	"	"	
Fluorene	ND	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	5.00	"	"	"	"	"	"	
Phenanthrene	ND	5.00	"	"	"	"	"	"	
Pyrene	ND	5.00	"	"	"	"	"	"	

Date Sampled: 07/02/12 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		97.9 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		111 %	50-150		"	"	"	"	

Calculated Analytes

Date Sampled: 07/02/12 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	6.27	1.00	mg/kg	1	2070915	07/09/12	07/09/12	Calculation	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 07/02/12 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.46	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020A	
Barium	75.6	0.100	"	"	"	"	"	"	
Cadmium	0.155	0.100	"	"	"	"	"	"	

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SS03
R207019-03 (Soil)

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Total Metals by EPA Method 6020 - Dry Weight Basis

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium	7.27	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020A	
Copper	5.70	0.500	"	"	"	"	"	"	
Lead	7.08	0.100	"	"	"	"	"	"	
Nickel	6.94	0.100	"	"	"	"	"	"	
Selenium	0.102	0.100	"	"	"	"	"	"	
Silver	ND	0.100	"	"	"	"	"	"	
Zinc	24.5	10.0	"	"	"	"	"	"	

Total Mercury by EPA Method 7471/7470

Date Sampled: 07/02/12 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0500	mg/kg	1	2070303	07/03/12	07/03/12	EPA 7471B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 07/02/12 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.176	0.00100	mmhos/cm	1	2070312	07/03/12	07/03/12	SM 2510B	

Date Sampled: 07/02/12 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.8		pH Units	"	2070311	07/03/12	07/03/12	EPA 9045B	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: 07/02/12 12:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	25.9	2.50	mg/kg	1	2070302	07/03/12	07/03/12	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	10.9	1.00	"	"	"	"	"	"	
Sodium	8.76	7.00	"	"	"	"	"	"	

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SS03
R207019-03 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/02/12 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.360		units	1	2070317	07/03/12	07/03/12	EPA 6020/Mod. USDA60 6(2, 3A)	

Accutest Laboratories - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: **07/02/12 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	1	mg/kg	1	2070915	07/09/12	07/09/12	3060A/7196 A	

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Reported:
 07/10/12 09:17

SS04
R207019-04 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **07/02/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.97	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020	

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Reported:
 07/10/12 09:17

SS05
R207019-05 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **07/02/12 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.18	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020	

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Reported:
07/10/12 09:17

SS06
R207019-06 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: 07/02/12 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2070212	07/02/12	07/03/12	8015 DRO	

Date Sampled: 07/02/12 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		104 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/02/12 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2070211	07/02/12	07/02/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 07/02/12 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.5 %	30-150		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: 07/02/12 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	5.00	ug/kg	1	2070210	07/02/12	07/03/12	EPA 8270D SIM	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	

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07/10/12 09:17

SS06
R207019-06 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	5.00	ug/kg	1	2070210	07/02/12	07/03/12	EPA 8270D SIM	
Benzo (a) anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"	
Chrysene	ND	5.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	ND	5.00	"	"	"	"	"	"	
Fluorene	ND	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	5.00	"	"	"	"	"	"	
Phenanthrene	ND	5.00	"	"	"	"	"	"	
Pyrene	ND	5.00	"	"	"	"	"	"	

Date Sampled: 07/02/12 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		92.0 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		101 %	50-150		"	"	"	"	

Calculated Analytes

Date Sampled: 07/02/12 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	8.74	1.00	mg/kg	1	2070915	07/09/12	07/09/12	Calculation	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 07/02/12 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.89	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020A	
Barium	94.7	0.100	"	"	"	"	"	"	
Cadmium	0.397	0.100	"	"	"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

SS06
R207019-06 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Chromium	9.74	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020A
Copper	12.9	0.500	"	"	"	"	"	"
Lead	10.8	0.100	"	"	"	"	"	"
Nickel	13.8	0.100	"	"	"	"	"	"
Selenium	0.219	0.100	"	"	"	"	"	"
Silver	ND	0.100	"	"	"	"	"	"
Zinc	57.0	10.0	"	"	"	"	"	"

Total Mercury by EPA Method 7471/7470

Date Sampled: 07/02/12 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0500	mg/kg	1	2070303	07/03/12	07/03/12	EPA 7471B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 07/02/12 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.449	0.00100	mmhos/cm	1	2070312	07/03/12	07/03/12	SM 2510B	

Date Sampled: 07/02/12 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.5		pH Units	"	2070311	07/03/12	07/03/12	EPA 9045B	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: 07/02/12 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	450	2.50	mg/kg	1	2070302	07/03/12	07/03/12	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	76.0	1.00	"	"	"	"	"	"	
Sodium	65.2	7.00	"	"	"	"	"	"	

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Project: PDC - Easton Property

Project Number: PDC
 Project Manager: Brian Dodek

Reported:
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SS06
R207019-06 (Soil)

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Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/02/12 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.750		units	1	2070317	07/03/12	07/03/12	EPA 6020/Mod. USDA60 6(2, 3A)	

Accutest Laboratories - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: **07/02/12 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	1	mg/kg	1	2070915	07/09/12	07/09/12	3060A/7196 A	

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Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

SS07
R207019-07 (Soil)

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Total Petroleum Hydrocarbons by 8015

Date Sampled: **07/02/12 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2070212	07/02/12	07/03/12	8015 DRO	

Date Sampled: **07/02/12 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		100 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/02/12 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2070211	07/02/12	07/02/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/02/12 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		114 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		99.1 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.2 %	30-150		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **07/02/12 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	5.00	ug/kg	1	2070210	07/02/12	07/03/12	EPA 8270D SIM	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	

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Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

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SS07
R207019-07 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	5.00	ug/kg	1	2070210	07/02/12	07/03/12	EPA 8270D SIM	
Benzo (a) anthracene	ND	5.00	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	5.00	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	5.00	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"	"
Chrysene	ND	5.00	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	"
Fluoranthene	ND	5.00	"	"	"	"	"	"	"
Fluorene	ND	5.00	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	"
Naphthalene	ND	5.00	"	"	"	"	"	"	"
Phenanthrene	ND	5.00	"	"	"	"	"	"	"
Pyrene	ND	5.00	"	"	"	"	"	"	"

Date Sampled: 07/02/12 13:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		94.8 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		107 %	50-150		"	"	"	"	

Calculated Analytes

Date Sampled: 07/02/12 13:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	7.88	1.00	mg/kg	1	2070915	07/09/12	07/09/12	Calculation	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 07/02/12 13:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.40	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020A	
Barium	104	0.100	"	"	"	"	"	"	
Cadmium	0.297	0.100	"	"	"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

SS07
R207019-07 (Soil)

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Total Metals by EPA Method 6020 - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium	8.88	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020A	
Copper	11.2	0.500	"	"	"	"	"	"	
Lead	11.1	0.100	"	"	"	"	"	"	
Nickel	10.9	0.100	"	"	"	"	"	"	
Selenium	0.209	0.100	"	"	"	"	"	"	
Silver	ND	0.100	"	"	"	"	"	"	
Zinc	44.7	10.0	"	"	"	"	"	"	

Total Mercury by EPA Method 7471/7470

Date Sampled: 07/02/12 13:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0500	mg/kg	1	2070303	07/03/12	07/03/12	EPA 7471B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 07/02/12 13:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.644	0.00100	mmhos/cm	1	2070312	07/03/12	07/03/12	SM 2510B	

Date Sampled: 07/02/12 13:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.3		pH Units	"	2070311	07/03/12	07/03/12	EPA 9045B	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: 07/02/12 13:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	281	2.50	mg/kg	1	2070302	07/03/12	07/03/12	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	46.0	1.00	"	"	"	"	"	"	
Sodium	48.0	7.00	"	"	"	"	"	"	

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Project: PDC - Easton Property

Project Number: PDC
 Project Manager: Brian Dodek

Reported:
 07/10/12 09:17

SS07
R207019-07 (Soil)

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Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/02/12 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.700		units	1	2070317	07/03/12	07/03/12	EPA 6020/Mod. USDA60 6(2, 3A)	

Accutest Laboratories - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: **07/02/12 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	1	mg/kg	1	2070915	07/09/12	07/09/12	3060A/7196 A	

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Project: PDC - Easton Property

Project Number: PDC
 Project Manager: Brian Dodek

Reported:
 07/10/12 09:17

SS08
R207019-08 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **07/02/12 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.63	0.100	mg/kg	1	2070301	07/03/12	07/03/12	EPA 6020	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

Total Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2070212 - EPA 3550A

Blank (2070212-BLK1)		Prepared: 07/02/12 Analyzed: 07/03/12								
C10-C28 (DRO)	ND	50	mg/kg							
LCS (2070212-BS1)		Prepared: 07/02/12 Analyzed: 07/03/12								
C10-C28 (DRO)	599	50	mg/kg	501		119	79.3-126			
LCS Dup (2070212-BSD1)		Prepared: 07/02/12 Analyzed: 07/03/12								
C10-C28 (DRO)	579	50	mg/kg	501		116	79.3-126	3.34	11	
Matrix Spike (2070212-MS1)		Source: R207014-01			Prepared: 07/02/12 Analyzed: 07/03/12					
C10-C28 (DRO)	585	50	mg/kg	501	ND	117	45.1-150			
Matrix Spike Dup (2070212-MSD1)		Source: R207014-01			Prepared: 07/02/12 Analyzed: 07/03/12					
C10-C28 (DRO)	591	50	mg/kg	501	ND	118	45.1-150	1.00	25	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2070211 - EPA 5030 Soil MS

Blank (2070211-BLK1)

Prepared: 07/02/12 Analyzed: 07/03/12

Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0386</i>		<i>"</i>	<i>0.0397</i>		<i>97.1</i>	<i>30-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0399</i>		<i>"</i>	<i>0.0400</i>		<i>99.8</i>	<i>30-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>98.1</i>	<i>30-150</i>			

LCS (2070211-BS1)

Prepared: 07/02/12 Analyzed: 07/03/12

Benzene	0.143	0.0050	mg/kg	0.150		95.5	58.1-115			
Toluene	0.154	0.0050	"	0.150		103	56.7-123			
Ethylbenzene	0.154	0.0050	"	0.150		102	61.4-138			
m,p-Xylene	0.303	0.010	"	0.300		101	63.6-128			
o-Xylene	0.154	0.0050	"	0.150		103	62.6-134			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0397</i>		<i>"</i>	<i>0.0397</i>		<i>100</i>	<i>30-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>30-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0406</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>30-150</i>			

LCS Dup (2070211-BSD1)

Prepared: 07/02/12 Analyzed: 07/03/12

Benzene	0.145	0.0050	mg/kg	0.150		96.8	58.1-115	1.27	20	
Toluene	0.155	0.0050	"	0.150		104	56.7-123	1.03	20	
Ethylbenzene	0.153	0.0050	"	0.150		102	61.4-138	0.235	12.2	
m,p-Xylene	0.301	0.010	"	0.300		100	63.6-128	0.785	13.2	
o-Xylene	0.153	0.0050	"	0.150		102	62.6-134	0.839	12.2	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0414</i>		<i>"</i>	<i>0.0397</i>		<i>104</i>	<i>30-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>30-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0408</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>30-150</i>			

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4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 2070211 - EPA 5030 Soil MS

Matrix Spike (2070211-MS1)	Source: R207014-01			Prepared: 07/02/12		Analyzed: 07/03/12	
Benzene	0.114	0.0050	mg/kg	0.150	0.00108	75.1	47.2-120
Toluene	0.114	0.0050	"	0.150	ND	75.9	47.7-125
Ethylbenzene	0.103	0.0050	"	0.150	ND	68.9	34.5-150
m,p-Xylene	0.205	0.010	"	0.300	ND	68.5	30-150
o-Xylene	0.107	0.0050	"	0.150	ND	71.6	30-150
Surrogate: 1,2-Dichloroethane-d4	0.0446		"	0.0397		112	30-150
Surrogate: Toluene-d8	0.0406		"	0.0400		101	30-150
Surrogate: 4-Bromofluorobenzene	0.0408		"	0.0400		102	30-150

Matrix Spike Dup (2070211-MSD1)	Source: R207014-01			Prepared: 07/02/12		Analyzed: 07/03/12			
Benzene	0.107	0.0050	mg/kg	0.150	0.00108	70.5	47.2-120	6.28	15.1
Toluene	0.102	0.0050	"	0.150	ND	68.0	47.7-125	11.1	16.8
Ethylbenzene	0.0852	0.0050	"	0.150	ND	56.8	34.5-150	19.2	10.1
m,p-Xylene	0.169	0.010	"	0.300	ND	56.2	30-150	19.7	17.2
o-Xylene	0.0898	0.0050	"	0.150	ND	59.9	30-150	17.8	15.2
Surrogate: 1,2-Dichloroethane-d4	0.0431		"	0.0397		109	30-150		
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	30-150		
Surrogate: 4-Bromofluorobenzene	0.0418		"	0.0400		104	30-150		

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Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2070210 - EPA 3550A

Blank (2070210-BLK1)

Prepared: 07/02/12 Analyzed: 07/03/12

Acenaphthene	ND	5.00	ug/kg							
Acenaphthylene	ND	5.00	"							
Anthracene	ND	5.00	"							
Benzo (a) anthracene	ND	5.00	"							
Benzo (b) fluoranthene	ND	5.00	"							
Benzo (k) fluoranthene	ND	5.00	"							
Benzo (g,h,i) perylene	ND	5.00	"							
Benzo (a) pyrene	ND	5.00	"							
Chrysene	ND	5.00	"							
Dibenz (a,h) anthracene	ND	10.0	"							
Fluoranthene	ND	5.00	"							
Fluorene	ND	5.00	"							
Indeno (1,2,3-cd) pyrene	ND	10.0	"							
Naphthalene	ND	5.00	"							
Phenanthrene	ND	5.00	"							
Pyrene	ND	5.00	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	26.3		"	31.3		83.9	50-150			
<i>Surrogate: Fluoranthene-d10</i>	23.9		"	31.1		76.8	50-150			

LCS (2070210-BS1)

Prepared: 07/02/12 Analyzed: 07/03/12

Acenaphthene	27.6	5.00	ug/kg	33.3		82.7	58-128			
Acenaphthylene	27.0	5.00	"	33.3		81.0	60.6-126			
Anthracene	27.6	5.00	"	33.3		82.7	58.3-133			
Benzo (a) anthracene	24.6	5.00	"	33.3		73.7	56.3-132			
Benzo (b) fluoranthene	20.5	5.00	"	33.3		61.5	50.3-131			
Benzo (k) fluoranthene	24.6	5.00	"	33.3		73.7	48.6-130			
Benzo (g,h,i) perylene	20.1	5.00	"	33.3		60.2	51.9-125			
Benzo (a) pyrene	25.3	5.00	"	33.3		76.0	57.4-128			
Chrysene	24.2	5.00	"	33.3		72.6	55.5-117			
Dibenz (a,h) anthracene	17.6	10.0	"	33.3		52.9	46.9-124			
Fluoranthene	28.0	5.00	"	33.3		83.9	58-138			
Fluorene	27.4	5.00	"	33.3		82.3	64.2-123			
Indeno (1,2,3-cd) pyrene	25.6	10.0	"	33.3		76.7	35.5-147			
Naphthalene	26.5	5.00	"	33.3		79.6	60.1-122			
Phenanthrene	27.0	5.00	"	33.3		80.9	58-127			
Pyrene	26.5	5.00	"	33.3		79.6	53.9-129			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	26.1		"	31.3		83.4	50-150			
<i>Surrogate: Fluoranthene-d10</i>	25.0		"	31.1		80.6	50-150			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2070210 - EPA 3550A

LCS Dup (2070210-BSD1)

Prepared: 07/02/12 Analyzed: 07/03/12

Acenaphthene	26.5	5.00	ug/kg	33.3		79.6	58-128	3.82	17.2	
Acenaphthylene	27.2	5.00	"	33.3		81.6	60.6-126	0.722	18	
Anthracene	26.9	5.00	"	33.3		80.7	58.3-133	2.47	17.5	
Benzo (a) anthracene	24.7	5.00	"	33.3		74.2	56.3-132	0.649	16	
Benzo (b) fluoranthene	21.7	5.00	"	33.3		65.1	50.3-131	5.67	14.8	
Benzo (k) fluoranthene	23.6	5.00	"	33.3		70.9	48.6-130	3.88	20	
Benzo (g,h,i) perylene	21.2	5.00	"	33.3		63.5	51.9-125	5.26	20	
Benzo (a) pyrene	28.0	5.00	"	33.3		84.1	57.4-128	10.1	16.5	
Chrysene	23.3	5.00	"	33.3		70.0	55.5-117	3.67	15.2	
Dibenz (a,h) anthracene	17.3	10.0	"	33.3		51.9	46.9-124	1.84	20	
Fluoranthene	26.7	5.00	"	33.3		80.0	58-138	4.66	16.5	
Fluorene	26.8	5.00	"	33.3		80.4	64.2-123	2.40	18.5	
Indeno (1,2,3-cd) pyrene	25.0	10.0	"	33.3		75.1	35.5-147	2.05	20	
Naphthalene	25.7	5.00	"	33.3		77.1	60.1-122	3.19	17.8	
Phenanthrene	25.9	5.00	"	33.3		77.6	58-127	4.24	17	
Pyrene	25.6	5.00	"	33.3		76.8	53.9-129	3.52	20	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	25.6		"	31.3		81.6	50-150			
<i>Surrogate: Fluoranthene-d10</i>	24.7		"	31.1		79.4	50-150			

Matrix Spike (2070210-MS1)

Source: R207019-02

Prepared: 07/02/12 Analyzed: 07/03/12

Acenaphthene	26.9	5.00	ug/kg	33.3	ND	80.7	30-150			
Acenaphthylene	28.4	5.00	"	33.3	ND	85.3	52.1-122			
Anthracene	28.3	5.00	"	33.3	ND	85.0	36.5-130			
Benzo (a) anthracene	33.2	5.00	"	33.3	ND	99.6	30-150			
Benzo (b) fluoranthene	19.1	5.00	"	33.3	ND	57.3	30-150			
Benzo (k) fluoranthene	24.1	5.00	"	33.3	ND	72.2	30-150			
Benzo (g,h,i) perylene	19.9	5.00	"	33.3	ND	59.7	30-150			
Benzo (a) pyrene	25.9	5.00	"	33.3	ND	77.6	30-150			
Chrysene	23.0	5.00	"	33.3	ND	69.0	31.4-130			
Dibenz (a,h) anthracene	18.6	10.0	"	33.3	ND	55.8	30-145			
Fluoranthene	29.0	5.00	"	33.3	ND	87.0	30-150			
Fluorene	29.2	5.00	"	33.3	ND	87.6	47.9-126			
Indeno (1,2,3-cd) pyrene	26.1	10.0	"	33.3	ND	78.3	30-138			
Naphthalene	26.5	5.00	"	33.3	ND	79.6	39.9-129			
Phenanthrene	25.7	5.00	"	33.3	ND	77.0	30-150			
Pyrene	25.0	5.00	"	33.3	ND	74.9	30-150			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	30.0		"	31.3		95.7	50-150			
<i>Surrogate: Fluoranthene-d10</i>	32.9		"	31.1		106	50-150			

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

Analyte	Reporting		Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	

Batch 2070210 - EPA 3550A

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

Total Metals by EPA Method 6020 - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 2070301 - EPA 3050B

Blank (2070301-BLK1)

Prepared & Analyzed: 07/03/12

Arsenic	ND	0.100	mg/kg							
Arsenic	ND	0.100	"							
Barium	ND	0.100	"							
Cadmium	ND	0.100	"							
Chromium	ND	0.100	"							
Copper	ND	0.500	"							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.100	"							
Silver	ND	0.100	"							
Zinc	ND	10.0	"							

LCS (2070301-BS1)

Prepared & Analyzed: 07/03/12

Arsenic	2.51	0.100	mg/kg	2.54	98.6	80-119				
Arsenic	2.51	0.100	"	2.54	98.6	80-119				
Barium	226	0.100	"	225	100	80-119				
Cadmium	1.06	0.100	"	1.02	105	80-124				
Chromium	10.9	0.100	"	10.0	109	80-121				
Copper	18.7	0.500	"	20.0	93.5	78.9-110				
Lead	67.6	0.100	"	75.0	90.2	78.1-116				
Nickel	14.8	0.100	"	15.1	98.3	80-118				
Selenium	1.08	0.100	"	1.15	93.7	80-106				
Silver	0.191	0.100	"	0.200	95.7	75.3-124				
Zinc	68.7	10.0	"	75.0	91.6	83.5-117				

LCS Dup (2070301-BSD1)

Prepared & Analyzed: 07/03/12

Arsenic	2.29	0.100	mg/kg	2.54	90.0	80-119	9.12	20		
Arsenic	2.29	0.100	"	2.54	90.0	80-119	9.12	20		
Barium	225	0.100	"	225	100	80-119	0.464	20		
Cadmium	0.986	0.100	"	1.02	97.1	80-124	7.47	20		
Chromium	10.0	0.100	"	10.0	99.6	80-121	8.76	20		
Copper	17.0	0.500	"	20.0	85.0	78.9-110	9.52	20		
Lead	69.3	0.100	"	75.0	92.3	78.1-116	2.34	17.2		
Nickel	13.6	0.100	"	15.1	89.8	80-118	9.08	20		
Selenium	1.10	0.100	"	1.15	95.3	80-106	1.69	20		
Silver	0.199	0.100	"	0.200	99.5	75.3-124	3.84	23.2		
Zinc	75.4	10.0	"	75.0	101	83.5-117	9.30	20		

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

Total Metals by EPA Method 6020 - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 2070301 - EPA 3050B

Matrix Spike (2070301-MS1)

Source: R207019-01 Prepared & Analyzed: 07/03/12

Arsenic	4.00	0.100	mg/kg	2.32	1.51	107	75-125		
Arsenic	4.00	0.100	"	2.32	1.51	107	75-125		
Barium	268	0.100	"	206	65.8	98.2	75-125		
Cadmium	1.18	0.100	"	0.928	0.143	112	75-125		
Chromium	15.9	0.100	"	9.18	6.78	98.9	45.6-137		
Copper	21.6	0.500	"	18.3	5.15	89.8	50.4-123		
Lead	67.0	0.100	"	68.5	6.06	88.9	46.2-136		
Nickel	18.8	0.100	"	13.8	5.69	94.8	75-157		
Selenium	0.912	0.100	"	1.05	0.0713	80.0	46.5-124		
Silver	0.175	0.100	"	0.183	0.0236	82.8	42.7-144		
Zinc	82.1	10.0	"	68.5	21.7	88.1	26.3-153		

Matrix Spike Dup (2070301-MSD1)

Source: R207019-01 Prepared & Analyzed: 07/03/12

Arsenic	3.51	0.100	mg/kg	2.36	1.51	84.6	75-125	13.2	24.2
Arsenic	3.51	0.100	"	2.36	1.51	84.6	75-125	13.2	24.2
Barium	275	0.100	"	209	65.8	100	75-125	2.76	25
Cadmium	1.17	0.100	"	0.942	0.143	109	75-125	0.391	22.3
Chromium	15.9	0.100	"	9.33	6.78	98.2	45.6-137	0.489	25
Copper	21.8	0.500	"	18.6	5.15	89.3	50.4-123	0.704	25
Lead	69.7	0.100	"	69.6	6.06	91.5	46.2-136	4.02	25
Nickel	18.9	0.100	"	14.0	5.69	94.6	75-157	0.860	25
Selenium	0.939	0.100	"	1.07	0.0713	81.3	46.5-124	2.92	25
Silver	0.189	0.100	"	0.186	0.0236	89.1	42.7-144	7.73	25
Zinc	83.2	10.0	"	69.6	21.7	88.4	26.3-153	1.38	25

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

Total Mercury by EPA Method 7471/7470 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 2070303 - EPA 7471A

Blank (2070303-BLK1)

Prepared & Analyzed: 07/03/12

Mercury ND 0.0500 mg/kg

LCS (2070303-BS1)

Prepared & Analyzed: 07/03/12

Mercury 0.388 0.0500 mg/kg 0.400 97.1 85.5-116

LCS Dup (2070303-BSD1)

Prepared & Analyzed: 07/03/12

Mercury 0.390 0.0500 mg/kg 0.400 97.5 85.5-116 0.432 17

Matrix Spike (2070303-MS1)

Source: R207019-02

Prepared & Analyzed: 07/03/12

Mercury 0.382 0.0500 mg/kg 0.373 0.0138 98.8 75-125

Matrix Spike Dup (2070303-MSD1)

Source: R207019-02

Prepared & Analyzed: 07/03/12

Mercury 0.396 0.0500 mg/kg 0.390 0.0138 98.1 75-125 3.60 25

Summit Scientific

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
 Project Manager: Brian Dodek

Reported:
 07/10/12 09:17

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2070311 - General Preparation

Duplicate (2070311-DUP1)		Source: R207019-02			Prepared & Analyzed: 07/03/12					
pH	8.3		pH Units		8.3			0.241	4.95	

Batch 2070312 - General Preparation

Duplicate (2070312-DUP1)		Source: R207019-03			Prepared & Analyzed: 07/03/12					
Specific Conductance (EC)	0.178	0.00100	mmhos/cm		0.176			1.50	15.5	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2070302 - General Preparation

Blank (2070302-BLK1)

Prepared & Analyzed: 07/03/12

Calcium	ND	2.50	mg/kg							
Magnesium	ND	1.00	"							
Sodium	6.95	5.00	"							

LCS (2070302-BS1)

Prepared & Analyzed: 07/03/12

Calcium	360	2.50	mg/kg	400		90.1	70-130			
Magnesium	198	1.00	"	200		99.1	70-130			
Sodium	807	5.00	"	800		101	70-130			

LCS Dup (2070302-BSD1)

Prepared & Analyzed: 07/03/12

Calcium	353	2.50	mg/kg	400	204	88.3	70-130	1.98	25	
Magnesium	198	1.00	"	200	23.9	98.9	70-130	0.230	25	
Sodium	799	5.00	"	800	11.1	99.9	70-130	0.953	25	

Matrix Spike (2070302-MS1)

Source: R207019-02

Prepared & Analyzed: 07/03/12

Calcium	522	2.50	mg/kg	415	204	76.7	70-130			
Magnesium	238	1.00	"	208	23.9	103	70-130			
Sodium	871	5.00	"	831	11.1	104	70-130			

Matrix Spike Dup (2070302-MSD1)

Source: R207019-02

Prepared & Analyzed: 07/03/12

Calcium	601	2.50	mg/kg	415	204	95.5	70-130	13.9	25	
Magnesium	231	1.00	"	208	23.9	99.6	70-130	3.25	25	
Sodium	838	5.00	"	831	11.1	99.5	70-130	3.91	25	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton Property

Project Number: PDC
Project Manager: Brian Dodek

Reported:
07/10/12 09:17

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ATTACHMENT 5
POST-INCORPORATION LABORATORY ANALYTICAL REPORT



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

September 04, 2015

Brett Forkner
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: PDC - Easton #2 Spread

Enclosed are the results of analyses for samples received by Summit Scientific on 08/28/15 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read "Michelle Clements". The signature is fluid and cursive, with a prominent initial "M" and a long, sweeping underline.

Michelle Clements For Paul Shrewsbury
President



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	1508232-01	Soil	08/28/15 10:15	08/28/15 16:30
SS02	1508232-02	Soil	08/28/15 09:55	08/28/15 16:30
SS03	1508232-03	Soil	08/28/15 10:30	08/28/15 16:30
SS04	1508232-04	Soil	08/28/15 10:45	08/28/15 16:30
SS05	1508232-05	Soil	08/28/15 11:35	08/28/15 16:30
SS06	1508232-06	Soil	08/28/15 11:55	08/28/15 16:30
SS07	1508232-07	Soil	08/28/15 12:10	08/28/15 16:30
SS08	1508232-08	Soil	08/28/15 11:45	08/28/15 16:30

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

Summit Scientific

1508232

S₂

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-277-9531 Fax

Page 1 of 1

Client: LT Environmental, Inc.

Address: 4600 West 60th Avenue

City/State/Zip: Arvada, CO 80003

Phone: (303) 433-9788

Fax: (303) 433-1432

Sampler Name: Brett Forkner

Project Manager: BRETT FORKNER

E-Mail: bforkner@LTENV.CO

Project Name: EASTON #2 SPREADFIELD

Project Number: 018811023

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:							Special Instructions		
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	D/D/O	LBTEX	PH/EC	SAIL	TABLE 910 METALS	ARS-As		TABLE 910 FAHS	
SS01	8/28/15	1015	2			X														
SS02		0955	4			X							X	X	X	X	X	X		
SS03		1030	4			X							X	X	X	X	X	X		
SS04		1045	2			X											X			
SS05		1135	2			X							X	X	X	X	X	X		
SS06		1155	4			X							X	X	X	X	X	X		
SS07		1210	4			X							X	X	X	X	X	X		
SS08		1145	2			X											X			
Relinquished by: <u>[Signature]</u> Date/Time: <u>8/28/15</u>				Received by: <u>[Signature]</u> Date/Time: <u>8/28/15 1630</u>				Turn Around Time (Check)				Notes:								
Relinquished by: <u>[Signature]</u> Date/Time: <u>8/28/15 1817</u>				Received by: <u>[Signature]</u> Date/Time: <u>8/28/15 1811</u>				Same Day <input type="checkbox"/> 72 Hours <input checked="" type="checkbox"/>				Full 910-1 For - SS02, SS03, SS06 + SS07								
Relinquished by: <u>[Signature]</u> Date/Time: <u>8/28/15 1817</u>				Received in Lab by: <u>[Signature]</u> Date/Time: <u>8/28/15 1811</u>				48 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>				Sample Integrity: <u>5.2°C</u>								
								Temperature Upon Receipt: <u>5.2°C</u>				As only For SS 01, SS04 SS05, SS08								
								Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												

www.s2scientific.com

Summit Scientific

[Signature]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: PDC - Easton #2 Spread

Project Number: 0188-11023
 Project Manager: Brett Forkner

Reported:
 09/04/15 14:33

SS01
1508232-01 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **08/28/15 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.88	0.0967	mg/kg dry	1	1509002	09/01/15	09/02/15	EPA 6020A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/15 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.8		%	1	1508244	08/31/15	09/01/15	% calculation	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

SS02

1508232-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/28/15 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	73	50	mg/kg	1	1508251	08/31/15	09/02/15	8015M	

Date Sampled: **08/28/15 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		98.5 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/28/15 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1508250	08/31/15	09/01/15	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/28/15 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		120 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **08/28/15 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1509014	09/02/15	09/03/15	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

SS02
1508232-02 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (a) anthracene	0.0220	0.00500	mg/kg	1	1509014	09/02/15	09/03/15	EPA 8270D SIM	
Benzo (b) fluoranthene	0.0110	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.00523	0.00500	"	"	"	"	"	"	
Chrysene	0.0136	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.00608	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Naphthalene	0.00984	0.00500	"	"	"	"	"	"	
Pyrene	0.00994	0.00500	"	"	"	"	"	"	

Date Sampled: **08/28/15 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		77.3 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		78.9 %	50-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **08/28/15 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	8.43	0.102	mg/kg dry	1	1509002	09/01/15	09/03/15	EPA 6020A	
Barium	648	0.102	"	"	"	"	"	"	
Boron	1.71	1.02	"	"	"	"	"	"	
Cadmium	1.11	0.102	"	"	"	"	"	"	
Chromium	14.0	0.510	"	"	"	"	"	"	
Copper	23.6	0.510	"	"	"	"	"	"	
Lead	10.6	0.102	"	"	"	"	"	"	
Nickel	20.8	0.102	"	"	"	"	"	"	
Selenium	2.66	0.0510	"	"	"	"	"	"	
Silver	0.163	0.102	"	"	"	"	"	"	
Zinc	72.3	10.2	"	"	"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

SS02
1508232-02 (Soil)

Summit Scientific

Total Mercury by EPA Method 7471

Date Sampled: **08/28/15 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0573	mg/kg dry	1	1509018	09/02/15	09/03/15	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **08/28/15 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	1.15	mg/kg dry	1	1508243	08/31/15	09/01/15	EPA 7196	

Date Sampled: **08/28/15 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trivalent Chromium	14.0	1.66	"	"	[CALC]	09/01/15	09/03/15	EPA 7196/3060A	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **08/28/15 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	861	11.5	mg/kg dry	1	1509007	09/01/15	09/03/15	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	57.3	5.73	"	"	"	"	"	"	
Sodium	2100	5.73	"	"	"	"	"	"	

Date Sampled: **08/28/15 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	18.7		units	"	1509032	09/03/15	09/03/15	"	

Physical Parameters by APHA/ASTM/EPA Methods

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LT Environmental, Inc.
 4600 West 60th Avenue
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Project: PDC - Easton #2 Spread

Project Number: 0188-11023
 Project Manager: Brett Forkner

Reported:
 09/04/15 14:33

SS02

1508232-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/15 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	7.96	0.0100	mmhos/cm	1	1509029	09/03/15	09/03/15	SM 2510B	

Date Sampled: **08/28/15 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08	0.100	pH Units	"	1509028	09/03/15	09/03/15	EPA 9045	

Date Sampled: **08/28/15 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.3		%	"	1508244	08/31/15	09/01/15	% calculation	

Summit Scientific

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4600 West 60th Avenue
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Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

SS03

1508232-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/28/15 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	120	50	mg/kg	1	1508251	08/31/15	09/02/15	8015M	

Date Sampled: **08/28/15 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		102 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/28/15 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1508250	08/31/15	09/01/15	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/28/15 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **08/28/15 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1509014	09/02/15	09/03/15	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
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Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

SS03
1508232-03 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Benzo (a) anthracene	ND	0.00500	mg/kg	1	1509014	09/02/15	09/03/15	EPA 8270D SIM
Benzo (b) fluoranthene	0.0110	0.00500	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"
Benzo (a) pyrene	0.00806	0.00500	"	"	"	"	"	"
Chrysene	0.0753	0.00500	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"
Fluoranthene	ND	0.00500	"	"	"	"	"	"
Fluorene	0.00526	0.00500	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"
Naphthalene	0.0211	0.00500	"	"	"	"	"	"
Pyrene	0.0225	0.00500	"	"	"	"	"	"

Date Sampled: **08/28/15 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		76.3 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		57.2 %	50-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **08/28/15 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	8.15	0.109	mg/kg dry	1	1509002	09/01/15	09/03/15	EPA 6020A	
Barium	485	0.109	"	"	"	"	"	"	
Boron	ND	1.09	"	"	"	"	"	"	
Cadmium	1.46	0.109	"	"	"	"	"	"	
Chromium	12.2	0.543	"	"	"	"	"	"	
Copper	28.1	0.543	"	"	"	"	"	"	
Lead	10.9	0.109	"	"	"	"	"	"	
Nickel	23.1	0.109	"	"	"	"	"	"	
Selenium	3.14	0.0543	"	"	"	"	"	"	
Silver	0.166	0.109	"	"	"	"	"	"	
Zinc	105	10.9	"	"	"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

SS03
1508232-03 (Soil)

Summit Scientific

Total Mercury by EPA Method 7471

Date Sampled: **08/28/15 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0466	mg/kg dry	1	1509018	09/02/15	09/03/15	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **08/28/15 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	1.06	mg/kg dry	1	1508243	08/31/15	09/01/15	EPA 7196	

Date Sampled: **08/28/15 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trivalent Chromium	12.2	1.60	"	"	[CALC]	09/01/15	09/03/15	EPA 7196/3060A	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **08/28/15 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	689	12.0	mg/kg dry	1	1509007	09/01/15	09/03/15	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	45.3	6.02	"	"	"	"	"	"	
Sodium	2540	6.02	"	"	"	"	"	"	

Date Sampled: **08/28/15 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	25.3		units	"	1509032	09/03/15	09/03/15	"	

Physical Parameters by APHA/ASTM/EPA Methods

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: PDC - Easton #2 Spread

Project Number: 0188-11023
 Project Manager: Brett Forkner

Reported:
 09/04/15 14:33

SS03

1508232-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/15 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	7.14	0.0100	mmhos/cm	1	1509029	09/03/15	09/03/15	SM 2510B	

Date Sampled: **08/28/15 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.18	0.100	pH Units	"	1509028	09/03/15	09/03/15	EPA 9045	

Date Sampled: **08/28/15 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.1		%	"	1508244	08/31/15	09/01/15	% calculation	

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 Arvada CO, 80003

Project: PDC - Easton #2 Spread

Project Number: 0188-11023
 Project Manager: Brett Forkner

Reported:
 09/04/15 14:33

SS04

1508232-04 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **08/28/15 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	8.81	0.102	mg/kg dry	1	1509002	09/01/15	09/03/15	EPA 6020A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/15 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.1		%	1	1508244	08/31/15	09/01/15	% calculation	

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 Project Manager: Brett Forkner

Reported:
 09/04/15 14:33

SS05

1508232-05 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **08/28/15 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	7.18	0.119	mg/kg dry	1	1509002	09/01/15	09/03/15	EPA 6020A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/15 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.8		%	1	1508244	08/31/15	09/01/15	% calculation	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

SS06

1508232-06 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/28/15 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	73	50	mg/kg	1	1508251	08/31/15	09/02/15	8015M	

Date Sampled: **08/28/15 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		97.6 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/28/15 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1508250	08/31/15	09/01/15	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/28/15 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **08/28/15 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1509014	09/02/15	09/03/15	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	

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Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

SS06

1508232-06 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Benzo (a) anthracene	ND	0.00500	mg/kg	1	1509014	09/02/15	09/03/15	EPA 8270D SIM
Benzo (b) fluoranthene	0.0146	0.00500	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"
Benzo (a) pyrene	0.00673	0.00500	"	"	"	"	"	"
Chrysene	0.0164	0.00500	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"
Fluoranthene	0.00674	0.00500	"	"	"	"	"	"
Fluorene	ND	0.00500	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"
Naphthalene	0.0147	0.00500	"	"	"	"	"	"
Pyrene	0.0216	0.00500	"	"	"	"	"	"

Date Sampled: 08/28/15 11:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		58.2 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		53.6 %	50-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 08/28/15 11:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	7.68	0.0954	mg/kg dry	1	1509002	09/01/15	09/03/15	EPA 6020A	
Barium	313	0.0954	"	"	"	"	"	"	
Boron	ND	0.954	"	"	"	"	"	"	
Cadmium	0.958	0.0954	"	"	"	"	"	"	
Chromium	14.2	0.477	"	"	"	"	"	"	
Copper	25.7	0.477	"	"	"	"	"	"	
Lead	10.7	0.0954	"	"	"	"	"	"	
Nickel	20.9	0.0954	"	"	"	"	"	"	
Selenium	2.31	0.0477	"	"	"	"	"	"	
Silver	0.177	0.0954	"	"	"	"	"	"	
Zinc	68.8	9.54	"	"	"	"	"	"	

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LT Environmental, Inc.
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Arvada CO, 80003

Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

SS06
1508232-06 (Soil)

Summit Scientific

Total Mercury by EPA Method 7471

Date Sampled: **08/28/15 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	0.0421	0.0403	mg/kg dry	1	1509018	09/02/15	09/03/15	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **08/28/15 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.915	mg/kg dry	1	1508243	08/31/15	09/01/15	EPA 7196	

Date Sampled: **08/28/15 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trivalent Chromium	14.2	1.39	"	"	[CALC]	09/01/15	09/03/15	EPA 7196/3060A	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **08/28/15 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	778	8.64	mg/kg dry	1	1509007	09/01/15	09/03/15	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	74.6	4.32	"	"	"	"	"	"	
Sodium	1120	4.32	"	"	"	"	"	"	

Date Sampled: **08/28/15 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	10.3		units	"	1509032	09/03/15	09/03/15	"	

Physical Parameters by APHA/ASTM/EPA Methods

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: PDC - Easton #2 Spread

Project Number: 0188-11023
 Project Manager: Brett Forkner

Reported:
 09/04/15 14:33

SS06

1508232-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/15 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.32	0.0100	mmhos/cm	1	1509029	09/03/15	09/03/15	SM 2510B	

Date Sampled: **08/28/15 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.24	0.100	pH Units	"	1509028	09/03/15	09/03/15	EPA 9045	

Date Sampled: **08/28/15 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.9		%	"	1508244	08/31/15	09/01/15	% calculation	

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Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

SS07

1508232-07 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/28/15 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	220	50	mg/kg	1	1508251	08/31/15	09/02/15	8015M	

Date Sampled: **08/28/15 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		109 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/28/15 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1508250	08/31/15	09/01/15	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/28/15 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		117 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **08/28/15 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1509014	09/02/15	09/03/15	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	

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Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

SS07
1508232-07 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Benzo (a) anthracene	0.0219	0.00500	mg/kg	1	1509014	09/02/15	09/03/15	EPA 8270D SIM
Benzo (b) fluoranthene	0.0473	0.00500	"	"	"	"	"	"
Benzo (k) fluoranthene	0.0141	0.00500	"	"	"	"	"	"
Benzo (a) pyrene	0.0279	0.00500	"	"	"	"	"	"
Chrysene	0.0862	0.00500	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"
Fluoranthene	0.0154	0.00500	"	"	"	"	"	"
Fluorene	0.00625	0.00500	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	0.0224	0.00500	"	"	"	"	"	"
Naphthalene	0.0168	0.00500	"	"	"	"	"	"
Pyrene	0.0532	0.00500	"	"	"	"	"	"

Date Sampled: 08/28/15 12:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		71.3 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		57.0 %	50-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 08/28/15 12:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	7.43	0.0929	mg/kg dry	1	1509002	09/01/15	09/03/15	EPA 6020A	
Barium	313	0.0929	"	"	"	"	"	"	
Boron	1.07	0.929	"	"	"	"	"	"	
Cadmium	1.39	0.0929	"	"	"	"	"	"	
Chromium	14.6	0.465	"	"	"	"	"	"	
Copper	27.1	0.465	"	"	"	"	"	"	
Lead	9.16	0.0929	"	"	"	"	"	"	
Nickel	22.4	0.0929	"	"	"	"	"	"	
Selenium	3.25	0.0465	"	"	"	"	"	"	
Silver	0.199	0.0929	"	"	"	"	"	"	
Zinc	69.8	9.29	"	"	"	"	"	"	

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4600 West 60th Avenue
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Project: PDC - Easton #2 Spread

Project Number: 0188-11023
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Reported:
09/04/15 14:33

SS07

1508232-07 (Soil)

Summit Scientific

Total Mercury by EPA Method 7471

Date Sampled: **08/28/15 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0470	mg/kg dry	1	1509018	09/02/15	09/03/15	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **08/28/15 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	1.06	mg/kg dry	1	1508243	08/31/15	09/01/15	EPA 7196	

Date Sampled: **08/28/15 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trivalent Chromium	14.6	1.52	"	"	[CALC]	09/01/15	09/03/15	EPA 7196/3060A	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **08/28/15 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	825	10.6	mg/kg dry	1	1509007	09/01/15	09/03/15	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	47.0	5.28	"	"	"	"	"	"	
Sodium	2310	5.28	"	"	"	"	"	"	

Date Sampled: **08/28/15 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	21.2		units	"	1509032	09/03/15	09/03/15	"	

Physical Parameters by APHA/ASTM/EPA Methods

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 Project Manager: Brett Forkner

Reported:
 09/04/15 14:33

SS07

1508232-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/15 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	8.54	0.0100	mmhos/cm	1	1509029	09/03/15	09/03/15	SM 2510B	

Date Sampled: **08/28/15 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.10	0.100	pH Units	"	1509028	09/03/15	09/03/15	EPA 9045	

Date Sampled: **08/28/15 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.7		%	"	1508244	08/31/15	09/01/15	% calculation	

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Project: PDC - Easton #2 Spread

Project Number: 0188-11023
 Project Manager: Brett Forkner

Reported:
 09/04/15 14:33

SS08

1508232-08 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **08/28/15 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.61	0.112	mg/kg dry	1	1509002	09/01/15	09/03/15	EPA 6020A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/15 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.3		%	1	1508244	08/31/15	09/01/15	% calculation	

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Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 1508251 - EPA 3550A

Blank (1508251-BLK1)

Prepared: 08/31/15 Analyzed: 09/02/15

C10-C28 (DRO)	ND	50	mg/kg								
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.2		100	30-150				

LCS (1508251-BS1)

Prepared: 08/31/15 Analyzed: 09/02/15

C10-C28 (DRO)	487	50	mg/kg	499		97.7	73-134				
Surrogate: <i>o</i> -Terphenyl	13.0		"	12.2		106	30-150				

Matrix Spike (1508251-MS1)

Source: 1508228-01

Prepared: 08/31/15 Analyzed: 09/02/15

C10-C28 (DRO)	488	50	mg/kg	493	9.60	97.0	50-148				
Surrogate: <i>o</i> -Terphenyl	12.9		"	12.1		107	30-150				

Matrix Spike Dup (1508251-MSD1)

Source: 1508228-01

Prepared: 08/31/15 Analyzed: 09/02/15

C10-C28 (DRO)	461	50	mg/kg	494	9.60	91.4	50-148	5.64	13		
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.1		101	30-150				

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Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1508250 - EPA 5030 Soil MS

Blank (1508250-BLK1)

Prepared: 08/31/15 Analyzed: 09/01/15

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0426</i>		<i>"</i>	<i>0.0396</i>		<i>108</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0384</i>		<i>"</i>	<i>0.0400</i>		<i>96.0</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0385</i>		<i>"</i>	<i>0.0400</i>		<i>96.2</i>	<i>21-167</i>			

LCS (1508250-BS1)

Prepared: 08/31/15 Analyzed: 09/01/15

Benzene	0.109	0.0020	mg/kg	0.100		109	58-130			
Toluene	0.103	0.0050	"	0.100		103	61-134			
Ethylbenzene	0.109	0.0050	"	0.0992		110	74-139			
m,p-Xylene	0.221	0.010	"	0.200		111	73-137			
o-Xylene	0.115	0.0050	"	0.0984		117	73-141			
Xylenes (total)	0.336	0.0050	"				30-150			
Gasoline Range Hydrocarbons	1.90	0.50	"				30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0418</i>		<i>"</i>	<i>0.0396</i>		<i>106</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.6</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>21-167</i>			

Matrix Spike (1508250-MS1)

Source: 1508228-01

Prepared: 08/31/15 Analyzed: 09/01/15

Benzene	0.0987	0.0020	mg/kg	0.0916	ND	108	30-131			
Toluene	0.0951	0.0050	"	0.0916	ND	104	30-134			
Ethylbenzene	0.101	0.0050	"	0.0908	ND	111	22-153			
m,p-Xylene	0.204	0.010	"	0.183	ND	112	10-159			
o-Xylene	0.107	0.0050	"	0.0901	ND	119	31-151			
Xylenes (total)	0.312	0.0050	"		ND		0-0			
Gasoline Range Hydrocarbons	1.87	0.50	"		ND		0-0			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0426</i>		<i>"</i>	<i>0.0363</i>		<i>118</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0369</i>		<i>"</i>	<i>0.0366</i>		<i>101</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0376</i>		<i>"</i>	<i>0.0366</i>		<i>103</i>	<i>21-167</i>			

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Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1508250 - EPA 5030 Soil MS

Matrix Spike Dup (1508250-MSD1)	Source: 1508228-01			Prepared: 08/31/15	Analyzed: 09/01/15					
Benzene	0.103	0.0020	mg/kg	0.0943	ND	110	30-131	4.71	34	
Toluene	0.0957	0.0050	"	0.0943	ND	101	30-134	0.607	30	
Ethylbenzene	0.105	0.0050	"	0.0936	ND	112	22-153	3.27	24	
m,p-Xylene	0.212	0.010	"	0.188	ND	112	10-159	3.58	68	
o-Xylene	0.108	0.0050	"	0.0928	ND	117	31-151	0.981	38	
Xylenes (total)	0.320	0.0050	"		ND		0-0	2.69	0	
Gasoline Range Hydrocarbons	1.94	0.50	"		ND		0-0	3.39	0	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0447</i>		<i>"</i>	<i>0.0374</i>		<i>120</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0373</i>		<i>"</i>	<i>0.0377</i>		<i>98.9</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0380</i>		<i>"</i>	<i>0.0377</i>		<i>101</i>	<i>21-167</i>			

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Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1509014 - EPA 5030 Soil MS

Blank (1509014-BLK1)

Prepared: 09/02/15 Analyzed: 09/03/15

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Naphthalene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0249</i>		<i>"</i>	<i>0.0330</i>		<i>75.4</i>	<i>50-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0333</i>		<i>"</i>	<i>0.0330</i>		<i>101</i>	<i>50-150</i>			

LCS (1509014-BS1)

Prepared: 09/02/15 Analyzed: 09/03/15

Acenaphthene	0.0251	0.00500	mg/kg	0.0330		76.0	48-131			
Anthracene	0.0310	0.00500	"	0.0330		93.8	48-135			
Benzo (a) anthracene	0.0337	0.00500	"	0.0330		102	37-142			
Benzo (b) fluoranthene	0.0372	0.00500	"	0.0330		113	35-139			
Benzo (k) fluoranthene	0.0323	0.00500	"	0.0330		97.9	30-139			
Benzo (a) pyrene	0.0331	0.00500	"	0.0330		100	41-132			
Chrysene	0.0313	0.00500	"	0.0330		94.8	30-136			
Dibenz (a,h) anthracene	0.0367	0.00500	"	0.0330		111	24-127			
Fluoranthene	0.0308	0.00500	"	0.0330		93.3	50-139			
Fluorene	0.0287	0.00500	"	0.0330		86.8	50-130			
Indeno (1,2,3-cd) pyrene	0.0341	0.00500	"	0.0330		103	26-139			
Naphthalene	0.0308	0.00500	"	0.0330		93.3	40-135			
Pyrene	0.0253	0.00500	"	0.0330		76.7	39-141			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0287</i>		<i>"</i>	<i>0.0330</i>		<i>87.1</i>	<i>50-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0293</i>		<i>"</i>	<i>0.0330</i>		<i>88.8</i>	<i>50-150</i>			

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Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1509014 - EPA 5030 Soil MS

Matrix Spike (1509014-MS1)	Source: 1508232-06			Prepared: 09/02/15		Analyzed: 09/03/15	
Acenaphthene	0.0285	0.00500	mg/kg	0.0333	ND	85.5	27-140
Anthracene	0.0240	0.00500	"	0.0333	ND	72.1	23-144
Benzo (a) anthracene	0.0392	0.00500	"	0.0333	0.00366	107	12-168
Benzo (b) fluoranthene	0.0515	0.00500	"	0.0333	0.0146	111	10-170
Benzo (k) fluoranthene	0.0342	0.00500	"	0.0333	0.00351	92.0	11-150
Benzo (a) pyrene	0.0365	0.00500	"	0.0333	0.00673	89.3	11-162
Chrysene	0.0817	0.00500	"	0.0333	0.0164	196	10-200
Dibenz (a,h) anthracene	0.0300	0.00500	"	0.0333	ND	89.9	10-200
Fluoranthene	0.0267	0.00500	"	0.0333	0.00674	59.8	18-157
Fluorene	0.0317	0.00500	"	0.0333	0.00326	85.4	37-133
Indeno (1,2,3-cd) pyrene	0.0295	0.00500	"	0.0333	0.00343	78.2	10-161
Naphthalene	0.0463	0.00500	"	0.0333	0.0147	94.9	10-157
Pyrene	0.0813	0.00500	"	0.0333	0.0216	179	10-200
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0189</i>		"	<i>0.0333</i>		<i>56.8</i>	<i>50-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0174</i>		"	<i>0.0333</i>		<i>52.2</i>	<i>50-150</i>

Matrix Spike Dup (1509014-MSD1)	Source: 1508232-06			Prepared: 09/02/15		Analyzed: 09/03/15			
Acenaphthene	0.0308	0.00500	mg/kg	0.0331	ND	93.0	27-140	7.71	15
Anthracene	0.0230	0.00500	"	0.0331	ND	69.6	23-144	4.28	29
Benzo (a) anthracene	0.0401	0.00500	"	0.0331	0.00366	110	12-168	2.24	65
Benzo (b) fluoranthene	0.0546	0.00500	"	0.0331	0.0146	121	10-170	5.85	18
Benzo (k) fluoranthene	0.0370	0.00500	"	0.0331	0.00351	101	11-150	7.94	32
Benzo (a) pyrene	0.0391	0.00500	"	0.0331	0.00673	97.6	11-162	6.75	27
Chrysene	0.0819	0.00500	"	0.0331	0.0164	198	10-200	0.203	88
Dibenz (a,h) anthracene	0.0320	0.00500	"	0.0331	ND	96.7	10-128	6.64	20
Fluoranthene	0.0260	0.00500	"	0.0331	0.00674	58.0	18-157	2.74	31
Fluorene	0.0356	0.00500	"	0.0331	0.00326	97.6	37-133	11.4	16
Indeno (1,2,3-cd) pyrene	0.0325	0.00500	"	0.0331	0.00343	87.7	10-161	9.57	22
Naphthalene	0.0502	0.00500	"	0.0331	0.0147	107	10-157	8.13	24
Pyrene	0.0681	0.00500	"	0.0331	0.0216	140	10-166	17.7	57
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0273</i>		"	<i>0.0331</i>		<i>82.6</i>	<i>50-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0205</i>		"	<i>0.0331</i>		<i>62.0</i>	<i>50-150</i>		

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

Total Metals by EPA Method 6020 - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike	Source	%REC		RPD	Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	

Batch 1509002 - EPA 3050B

Blank (1509002-BLK1)

Prepared: 09/01/15 Analyzed: 09/02/15

Arsenic	ND	0.100	mg/kg wet						
Barium	ND	0.100	"						
Arsenic	ND	0.100	"						
Boron	ND	1.00	"						
Cadmium	ND	0.100	"						
Chromium	ND	0.500	"						
Copper	ND	0.500	"						
Lead	ND	0.100	"						
Nickel	ND	0.100	"						
Selenium	ND	0.0500	"						
Silver	ND	0.100	"						
Zinc	ND	10.0	"						

LCS (1509002-BS1)

Prepared: 09/01/15 Analyzed: 09/02/15

Arsenic	41.4	0.100	mg/kg wet	44.4	93.3	62.3-117			
Barium	152	0.100	"	176	86.3	68-115			
Arsenic	41.4	0.100	"	44.4	93.3	62.3-117			
Boron	56.8	1.00	"	82.8	68.6	49.3-115			
Cadmium	81.0	0.100	"	88.8	91.2	67.1-116			
Chromium	28.4	0.500	"	31.8	89.1	63.3-121			
Copper	52.4	0.500	"	57.6	91.0	69.4-115			
Lead	70.8	0.100	"	72.8	97.3	70.9-120			
Nickel	52.9	0.100	"	56.8	93.1	68.2-118			
Selenium	40.2	0.0500	"	40.0	100	55.9-119			
Silver	14.6	0.100	"	15.9	91.8	59-121			
Zinc	85.7	10.0	"	93.2	91.9	65.7-121			

Duplicate (1509002-DUP1)

Source: 1508232-01

Prepared: 09/01/15 Analyzed: 09/03/15

Arsenic	6.55	0.108	mg/kg dry	6.88		4.98	20		
Barium	601	0.108	"	446		29.5	20		QR-03
Boron	0.923	1.08	"	1.41		42.0	20		QR-03
Arsenic	6.55	0.108	"	6.88		4.98	20		
Cadmium	0.557	0.108	"	0.774		32.7	20		QR-03
Chromium	12.6	0.539	"	12.5		0.766	20		
Copper	19.8	0.539	"	20.5		3.28	20		
Lead	11.2	0.108	"	10.4		7.63	20		
Nickel	16.7	0.108	"	17.9		7.14	20		
Selenium	1.48	0.0539	"	1.98		29.2	20		QR-03
Silver	0.141	0.108	"	0.149		4.99	20		

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

Total Metals by EPA Method 6020 - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1509002 - EPA 3050B

Duplicate (1509002-DUP1)		Source: 1508232-01			Prepared: 09/01/15		Analyzed: 09/03/15			
Zinc	66.9	10.8	mg/kg dry	41.0	77.5	94.7	75-125	14.8	20	
Matrix Spike (1509002-MS1)		Source: 1508232-01			Prepared: 09/01/15		Analyzed: 09/03/15			
Arsenic	45.7	0.108	mg/kg dry	41.0	6.88	94.7	75-125			
Barium	1170	0.108	"	41.0	446	NR	75-125			QM-07
Boron	27.7	1.08	"	41.0	1.41	64.1	75-125			QM-07
Arsenic	45.7	0.108	"	41.0	6.88	94.7	75-125			
Cadmium	2.57	0.108	"	2.05	0.774	87.6	75-125			
Chromium	50.1	0.539	"	41.0	12.5	91.7	75-125			
Copper	55.6	0.539	"	41.0	20.5	85.6	75-125			
Lead	28.8	0.108	"	20.5	10.4	89.9	75-125			
Nickel	55.0	0.108	"	41.0	17.9	90.3	75-125			
Selenium	5.63	0.0539	"	4.10	1.98	89.1	75-125			
Silver	2.08	0.108	"	2.05	0.149	94.2	75-125			
Zinc	102	10.8	"	41.0	77.5	59.2	75-125			QM-07
Matrix Spike Dup (1509002-MSD1)		Source: 1508232-01			Prepared: 09/01/15		Analyzed: 09/03/15			
Arsenic	51.5	0.108	mg/kg dry	42.7	6.88	104	75-125	11.9	25	
Barium	1270	0.108	"	42.7	446	NR	75-125	8.20	25	QM-07
Arsenic	51.5	0.108	"	42.7	6.88	104	75-125	11.9	25	
Boron	30.2	1.08	"	42.7	1.41	67.4	75-125	8.63	25	QM-07
Cadmium	2.87	0.108	"	2.14	0.774	98.0	75-125	11.0	25	
Chromium	55.3	0.539	"	42.7	12.5	100	75-125	9.96	25	
Copper	61.7	0.539	"	42.7	20.5	96.4	75-125	10.4	25	
Lead	31.6	0.108	"	21.4	10.4	99.6	75-125	9.48	25	
Nickel	60.1	0.108	"	42.7	17.9	98.6	75-125	8.91	25	
Selenium	6.30	0.0539	"	4.27	1.98	101	75-125	11.2	25	
Silver	2.26	0.108	"	2.14	0.149	98.6	75-125	8.24	25	
Zinc	121	10.8	"	42.7	77.5	101	75-125	17.0	25	

Summit Scientific

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: PDC - Easton #2 Spread

Project Number: 0188-11023
 Project Manager: Brett Forkner

Reported:
 09/04/15 14:33

Total Mercury by EPA Method 7471 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1509018 - EPA 7471A

Blank (1509018-BLK1)			Prepared: 09/02/15 Analyzed: 09/03/15							
Mercury	ND	0.0500	mg/kg wet							
LCS (1509018-BS1)			Prepared: 09/02/15 Analyzed: 09/03/15							
Mercury	0.512	0.0500	mg/kg wet	0.500		102	80-120			
Duplicate (1509018-DUP1)			Source: 1508232-02		Prepared: 09/02/15 Analyzed: 09/03/15					
Mercury	0.0438	0.0573	mg/kg dry		0.0432			1.38	20	
Matrix Spike (1509018-MS1)			Source: 1508232-02		Prepared: 09/02/15 Analyzed: 09/03/15					
Mercury	0.564	0.0573	mg/kg dry	0.525	0.0432	99.2	80-120			
Matrix Spike Dup (1509018-MSD1)			Source: 1508232-02		Prepared: 09/02/15 Analyzed: 09/03/15					
Mercury	0.508	0.0460	mg/kg dry	0.460	0.0432	101	80-120	10.4	20	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

Hexavalent Chromium by EPA 7196 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1508243 - General Preparation

Blank (1508243-BLK1)		Prepared: 08/31/15 Analyzed: 09/01/15								
Chromium, Hexavalent	ND	1.00	mg/kg wet							
LCS (1508243-BS1)		Prepared: 08/31/15 Analyzed: 09/01/15								
Chromium, Hexavalent	19.1	1.00	mg/kg wet	19.9		95.9	80-120			
Duplicate (1508243-DUP1)		Source: 1508188-01 Prepared: 08/31/15 Analyzed: 09/01/15								
Chromium, Hexavalent	ND	1.17	mg/kg dry		ND				20	
Matrix Spike (1508243-MS1)		Source: 1508188-01 Prepared: 08/31/15 Analyzed: 09/01/15								
Chromium, Hexavalent	0.903	1.13	mg/kg dry	22.5	ND	4.01	80-120			QM-07
Matrix Spike (1508243-MS2)		Source: 1509001-01 Prepared: 08/31/15 Analyzed: 09/01/15								
Chromium, Hexavalent	ND	1.00	mg/kg wet	19.5	0.787	NR	80-120			QM-07
Post Spike (1508243-PS1)		Source: 1508188-01 Prepared: 08/31/15 Analyzed: 09/01/15								
Chromium, Hexavalent	0.233		mg/kg	0.498	ND	46.7	0-200			

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 1509007 - General Preparation

Blank (1509007-BLK1)

Prepared: 09/01/15 Analyzed: 09/03/15

Calcium	ND	10.0	mg/kg wet							
Magnesium	ND	5.00	"							
Sodium	ND	5.00	"							

LCS (1509007-BS1)

Prepared: 09/01/15 Analyzed: 09/03/15

Calcium	559	10.0	mg/kg wet	500	112	82.9-118				
Magnesium	523	5.00	"	500	105	77.1-123				
Sodium	589	5.00	"	500	118	71-129				

Duplicate (1509007-DUP1)

Source: 1508232-02

Prepared: 09/01/15 Analyzed: 09/03/15

Calcium	881	11.5	mg/kg dry		861			2.31	200	
Magnesium	64.9	5.73	"		57.3			12.4	200	
Sodium	2240	5.73	"		2100			6.69	200	

Matrix Spike (1509007-MS1)

Source: 1508232-02

Prepared: 09/01/15 Analyzed: 09/03/15

Calcium	1240	9.39	mg/kg dry	469	861	81.1	75-125			
Magnesium	549	4.69	"	469	57.3	105	75-125			
Sodium	2280	4.69	"	469	2100	39.6	75-125			QM-07

Matrix Spike Dup (1509007-MSD1)

Source: 1508232-02

Prepared: 09/01/15 Analyzed: 09/03/15

Calcium	1310	9.55	mg/kg dry	477	861	94.2	75-125	5.42	25	
Magnesium	577	4.77	"	477	57.3	109	75-125	4.95	25	
Sodium	2370	4.77	"	477	2100	56.5	75-125	3.61	25	QM-07

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1508244 - General Preparation

Duplicate (1508244-DUP1)	Source: 1508188-02			Prepared: 08/31/15 Analyzed: 09/01/15						
% Solids	80.3		%		80.1			0.300	20	

Batch 1509028 - General Preparation

LCS (1509028-BS1)				Prepared & Analyzed: 09/03/15						
pH	8.01	0.100	pH Units	8.00		100	95-105			
Duplicate (1509028-DUP1)	Source: 1508228-01			Prepared & Analyzed: 09/03/15						
pH	9.21	0.100	pH Units		9.28			0.757	20	

Batch 1509029 - General Preparation

Blank (1509029-BLK1)				Prepared & Analyzed: 09/03/15						
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (1509029-BS1)				Prepared & Analyzed: 09/03/15						
Specific Conductance (EC)	0.507	0.0100	mmhos/cm	0.500		101	90-110			
Duplicate (1509029-DUP1)	Source: 1508228-01			Prepared & Analyzed: 09/03/15						
Specific Conductance (EC)	1.30	0.0100	mmhos/cm		1.42			8.87	20	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Easton #2 Spread

Project Number: 0188-11023
Project Manager: Brett Forkner

Reported:
09/04/15 14:33

Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

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ATTACHMENT 6

SUBSEQUENT POST-INCORPORATION LABORATORY ANALYTICAL REPORT



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

May 06, 2016

Dan Hosler
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: Easton #2

Enclosed are the results of analyses for samples received by Summit Scientific on 04/28/16 11:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury
President



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Easton #2

Project Number: 018815003
Project Manager: Dan Hosler

Reported:
05/06/16 07:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	1604255-01	Soil	04/26/16 11:00	04/28/16 11:30
SS02	1604255-02	Soil	04/26/16 11:10	04/28/16 11:30
SS03	1604255-03	Soil	04/26/16 11:15	04/28/16 11:30
SS04	1604255-04	Soil	04/26/16 11:20	04/28/16 11:30
SS05	1604255-05	Soil	04/26/16 11:30	04/28/16 11:30
SS06	1604255-06	Soil	04/26/16 11:40	04/28/16 11:30
SS07	1604255-07	Soil	04/26/16 11:50	04/28/16 11:30
SS08	1604255-08	Soil	04/26/16 12:00	04/28/16 11:30

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Easton #2

Project Number: 018815003
Project Manager: Dan Hosler

Reported:
05/06/16 07:54

Summit Scientific

1604255

741 Corporate Circle Suite I • Golden, Colorado 80401
303-277-9310 • 303-374-5933 Fax

Page 1 of 1

Client: LT Environmental, Inc.	Project Manager: <u>D Hosler</u>
Address: 4600 West 60th Ave	E-Mail: <u>dhosler@ltenv.com, bforckner@ltenv.com</u>
City/State/Zip: Arvada, CO 80003	Project Name: <u>Easton #2</u>
Phone: 303-433-9788 Fax: 303-433-1432	Project Number: <u>018815003</u>
Sampler Name: <u>D Hosler</u>	

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:				Special Instructions	
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	Arsenic (As ₂ O ₃)	EC	SAR		PAH's - only benzo (a) pyrene
SS01	4/26/16	1100	1						X			X				
SS02		1110	1									X	X			
SS03		1115	1									X	X			
SS04		1120	1													
SS05		1130	1													
SS06		1140	1									X				
SS07		1150	1									X	X	X		
SS08		1200	1													
-only run for benzo(a) pyrene on PAH analysis																
Relinquished by: <u>DH</u>	Date/Time: 4/26/16	Received by: <u>Raina Ferguson</u>	Date/Time: 4/28/16	Turn Around Time (Check)				Notes:								
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	<input type="checkbox"/>	72 Hours	<input type="checkbox"/>	24 Hours	<input type="checkbox"/>	Standard	<input checked="" type="checkbox"/>					
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Sample Integrity:												
				Temperature Upon Receipt:	81°C											
				Intact: Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>									

www.s2scientific.com



LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: Easton #2
 Project Number: 018815003
 Project Manager: Dan Hosler

Reported:
 05/06/16 07:54

Summit Scientific Effective Date: 06/11/12

Sample Receipt Checklist

S₂ Work Order: 1604255

Client: LTE Client Project ID: Easton #2

Shipped Via: HD Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Temp (°C) 21°C

Thermometer ID: **61857155**

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C ⁽¹⁾ ?				
<small>NOTE: If samples are delivered within 5 hours of sampling, this requirement is waived provided that there is evidence that cooling has begun.</small>				
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
<small>Note the type of preservative in the Comments column – HCl, H₂SO₄, NaOH, etc.</small>				
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
<small>Record the pH in Comments.</small>				
If dissolved metals are requested, were samples field filtered?			<input checked="" type="checkbox"/>	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Mindy Mach
 Custodian Printed Name

MM
 Signature or Initials of Custodian

4/29/16 16:46
 Date/Time



LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: Easton #2
 Project Number: 018815003
 Project Manager: Dan Hosler

Reported:
 05/06/16 07:54

SS01
1604255-01 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **04/26/16 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.07	0.126	mg/kg dry	1	1604312	04/29/16	04/29/16	EPA 6020A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/26/16 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.1		%	1	1604313	04/29/16	04/29/16	% calculation	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Easton #2
Project Number: 018815003
Project Manager: Dan Hosler

Reported:
05/06/16 07:54

SS02
1604255-02 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **04/26/16 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.05	0.125	mg/kg dry	1	1604312	04/29/16	04/29/16	EPA 6020A	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **04/26/16 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1460	10.3	mg/kg dry	1	1605024	05/03/16	05/03/16	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	203	5.13	"	"	"	"	"	"	
Sodium	323	5.13	"	"	"	"	"	"	

Date Sampled: **04/26/16 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.10		units	"	1605030	05/04/16	05/04/16	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/26/16 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.28	0.0100	mmhos/cm	1	1604314	04/29/16	04/29/16	SM 2510B	

Date Sampled: **04/26/16 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.0		%	"	1604313	04/29/16	04/29/16	% calculation	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Easton #2
Project Number: 018815003
Project Manager: Dan Hosler

Reported:
05/06/16 07:54

SS03
1604255-03 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **04/26/16 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.51	0.122	mg/kg dry	1	1604312	04/29/16	04/29/16	EPA 6020A	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **04/26/16 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	730	9.36	mg/kg dry	1	1605024	05/03/16	05/03/16	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	114	4.68	"	"	"	"	"	"	
Sodium	599	4.68	"	"	"	"	"	"	

Date Sampled: **04/26/16 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.44		units	"	1605030	05/04/16	05/04/16	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/26/16 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.90	0.0100	mmhos/cm	1	1604314	04/29/16	04/29/16	SM 2510B	

Date Sampled: **04/26/16 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.3		%	"	1604313	04/29/16	04/29/16	% calculation	

Summit Scientific

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: Easton #2
 Project Number: 018815003
 Project Manager: Dan Hosler

Reported:
 05/06/16 07:54

SS04
1604255-04 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **04/26/16 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	8.31	0.125	mg/kg dry	1	1604312	04/29/16	04/29/16	EPA 6020A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/26/16 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.8		%	1	1604313	04/29/16	04/29/16	% calculation	

Summit Scientific

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: Easton #2
 Project Number: 018815003
 Project Manager: Dan Hosler

Reported:
 05/06/16 07:54

SS05
1604255-05 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **04/26/16 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	7.59	0.127	mg/kg dry	1	1604312	04/29/16	04/29/16	EPA 6020A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/26/16 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.8		%	1	1604313	04/29/16	04/29/16	% calculation	

Summit Scientific

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: Easton #2
 Project Number: 018815003
 Project Manager: Dan Hosler

Reported:
 05/06/16 07:54

SS06
1604255-06 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **04/26/16 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	8.74	0.120	mg/kg dry	1	1604312	04/29/16	04/29/16	EPA 6020A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/26/16 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.90	0.0100	mmhos/cm	1	1604314	04/29/16	04/29/16	SM 2510B	

Date Sampled: **04/26/16 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.2		%	"	1604313	04/29/16	04/29/16	% calculation	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Easton #2
Project Number: 018815003
Project Manager: Dan Hosler

Reported:
05/06/16 07:54

SS07
1604255-07 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **04/26/16 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (a) pyrene	ND	0.00500	mg/kg	1	1605016	05/02/16	05/04/16	EPA 8270D SIM	

Date Sampled: **04/26/16 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Fluoranthene-d10		45.2 %	30-150		"	"	"	"	
Surrogate: 2-Methylnaphthalene-d10		40.8 %	30-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **04/26/16 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.77	0.120	mg/kg dry	1	1604312	04/29/16	04/29/16	EPA 6020A	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **04/26/16 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1790	9.52	mg/kg dry	1	1605024	05/03/16	05/03/16	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	240	4.76	"	"	"	"	"	"	
Sodium	52.2	4.76	"	"	"	"	"	"	

Date Sampled: **04/26/16 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.307		units	"	1605030	05/04/16	05/04/16	"	

Summit Scientific

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: Easton #2
 Project Number: 018815003
 Project Manager: Dan Hosler

Reported:
 05/06/16 07:54

SS07
1604255-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/26/16 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.436	0.0100	mmhos/cm	1	1604314	04/29/16	04/29/16	SM 2510B	

Date Sampled: **04/26/16 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.1		%	"	1604313	04/29/16	04/29/16	% calculation	

Summit Scientific

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: Easton #2
 Project Number: 018815003
 Project Manager: Dan Hosler

Reported:
 05/06/16 07:54

SS08
1604255-08 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **04/26/16 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.97	0.126	mg/kg dry	1	1604312	04/29/16	04/29/16	EPA 6020A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/26/16 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.4		%	1	1604313	04/29/16	04/29/16	% calculation	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Easton #2
Project Number: 018815003
Project Manager: Dan Hosler

Reported:
05/06/16 07:54

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1605016 - EPA 5030 Soil MS

Blank (1605016-BLK1)

Prepared: 05/02/16 Analyzed: 05/04/16

Benzo (a) pyrene	ND	0.00500	mg/kg							
Surrogate: Fluoranthene-d10	0.0276		"	0.0332		83.0	50-150			
Surrogate: 2-Methylnaphthalene-d10	0.0244		"	0.0332		73.5	50-150			

LCS (1605016-BS1)

Prepared: 05/02/16 Analyzed: 05/04/16

Benzo (a) pyrene	0.0331	0.00500	mg/kg	0.0330		100	14-178			
Surrogate: Fluoranthene-d10	0.0244		"	0.0330		73.9	50-150			
Surrogate: 2-Methylnaphthalene-d10	0.0210		"	0.0330		63.7	50-150			

Matrix Spike (1605016-MS1)

Source: 1604255-07

Prepared: 05/02/16 Analyzed: 05/05/16

Benzo (a) pyrene	0.0335	0.00500	mg/kg	0.0332	ND	101	11-148			
Surrogate: Fluoranthene-d10	0.0246		"	0.0332		74.1	50-150			
Surrogate: 2-Methylnaphthalene-d10	0.0228		"	0.0332		68.5	50-150			

Matrix Spike Dup (1605016-MSD1)

Source: 1604255-07

Prepared: 05/02/16 Analyzed: 05/05/16

Benzo (a) pyrene	0.0300	0.00500	mg/kg	0.0329	ND	91.3	11-148	11.0	13	
Surrogate: Fluoranthene-d10	0.0223		"	0.0329		67.8	50-150			
Surrogate: 2-Methylnaphthalene-d10	0.0209		"	0.0329		63.4	50-150			

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Easton #2
Project Number: 018815003
Project Manager: Dan Hosler

Reported:
05/06/16 07:54

Total Metals by EPA Method 6020 - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 1604312 - EPA 3050B

Blank (1604312-BLK1)		Prepared & Analyzed: 04/29/16									
Arsenic	ND	0.100	mg/kg wet								
LCS (1604312-BS1)		Prepared & Analyzed: 04/29/16									
Arsenic	41.7	0.100	mg/kg wet	40.0	104	59.7-113					
Duplicate (1604312-DUP1)		Source: 1604244-01		Prepared & Analyzed: 04/29/16							
Arsenic	4.07	0.208	mg/kg dry		3.54				13.9	20	
Matrix Spike (1604312-MS1)		Source: 1604244-01		Prepared & Analyzed: 04/29/16							
Arsenic	80.5	0.208	mg/kg dry	79.0	3.54	97.5	75-125				
Matrix Spike Dup (1604312-MSD1)		Source: 1604244-01		Prepared & Analyzed: 04/29/16							
Arsenic	83.5	0.208	mg/kg dry	82.2	3.54	97.3	75-125	3.70	25		
Reference (1604312-SRM1)		Prepared & Analyzed: 04/29/16									
Arsenic	0.707	0.100	mg/kg wet	40.0	1.77	0-200					

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Easton #2
Project Number: 018815003
Project Manager: Dan Hosler

Reported:
05/06/16 07:54

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Notes
	Result	Limit			Units	%REC	Limits	RPD	

Batch 1605024 - General Preparation

Blank (1605024-BLK1)

Prepared & Analyzed: 05/03/16

Calcium	ND	10.0	mg/kg wet						
Magnesium	ND	5.00	"						
Sodium	ND	5.00	"						

LCS (1605024-BS1)

Prepared & Analyzed: 05/03/16

Calcium	585	10.0	mg/kg wet	500	117	82.9-118			
Magnesium	545	5.00	"	500	109	77.1-123			
Sodium	544	5.00	"	500	109	71-129			

Duplicate (1605024-DUP1)

Source: 1604239-01

Prepared & Analyzed: 05/03/16

Calcium	1480	8.86	mg/kg dry	1420			4.52	200	
Magnesium	341	4.43	"	318			6.96	200	
Sodium	122	4.43	"	126			2.91	200	

Matrix Spike (1605024-MS1)

Source: 1604239-01

Prepared & Analyzed: 05/03/16

Calcium	1960	8.86	mg/kg dry	443	1420	122	75-125		
Magnesium	852	4.43	"	443	318	121	75-125		
Sodium	627	4.43	"	443	126	113	75-125		

Matrix Spike Dup (1605024-MSD1)

Source: 1604239-01

Prepared & Analyzed: 05/03/16

Calcium	1970	8.86	mg/kg dry	443	1420	125	75-125	0.667	25
Magnesium	860	4.43	"	443	318	122	75-125	0.967	25
Sodium	599	4.43	"	443	126	107	75-125	4.55	25

Summit Scientific

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: Easton #2
 Project Number: 018815003
 Project Manager: Dan Hosler

Reported:
 05/06/16 07:54

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1604313 - General Preparation

Duplicate (1604313-DUP1)		Source: 1604244-01			Prepared & Analyzed: 04/29/16			
% Solids	43.0		%		48.0		11.0	20

Batch 1604314 - General Preparation

Blank (1604314-BLK1)					Prepared & Analyzed: 04/29/16			
Specific Conductance (EC)	ND	0.0100	mmhos/cm					
LCS (1604314-BS1)					Prepared & Analyzed: 04/29/16			
Specific Conductance (EC)	0.499	0.0100	mmhos/cm	0.500	99.8	90-110		
Duplicate (1604314-DUP1)		Source: 1604239-01			Prepared & Analyzed: 04/29/16			
Specific Conductance (EC)	0.896	0.0100	mmhos/cm		0.906		1.05	20

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Easton #2
Project Number: 018815003
Project Manager: Dan Hosler

Reported:
05/06/16 07:54

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Summit Scientific

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